

Request - Jan Delaval

ACCESS DB # 162260

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Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: Sabiba Ozy Examiner #: 74141 Date: 8/11/05  
Art Unit: 1616 Phone Number: 2-0622 Serial Number: 10578445  
Location (Bldg/Room#): 4A45 (Mailbox #): 4C70 Results Format Preferred (circle): PAPER DISK  
\*\*\*\*\*

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: Fungicidal mixtures  
Inventors (please provide full names): Eberhard Ammermann et al

Earliest Priority Date: 7/18/2002 371

Search Topic:

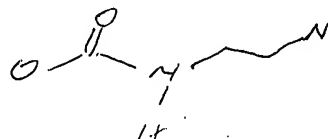
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Ch 1-7

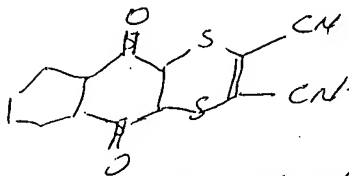
Please search for a composition containing

A) a compd of formula I.



(broad search or search formula I in cl.)

and  
B) a compd of for. II



Please see attached sheets

STAFF USE ONLY

Searcher: Jan  
Searcher Phone #: 22504  
Searcher Location: \_\_\_\_\_  
Date Searcher Picked Up: 8/15/05  
Date Completed: 8/15/05  
Searcher Prep & Review Time: 10  
Online Time: 15

Type of Search

\_\_\_\_ NA Sequence (#)  
☒ AA Sequence (#)  
☒ Structure (#) 2  
\_\_\_\_ Bibliographic  
\_\_\_\_ Litigation  
\_\_\_\_ Fulltext  
\_\_\_\_ Other

Vendors and cost where applicable

☒ STN \_\_\_\_\_ Dialog  
\_\_\_\_ Questel/Orbit \_\_\_\_\_ Lexis/Nexis  
\_\_\_\_ Westlaw \_\_\_\_\_ WWW/Internet  
\_\_\_\_ In-house sequence systems  
\_\_\_\_ Commercial \_\_\_\_\_ Oligomer \_\_\_\_\_ Score/Length  
\_\_\_\_ Interference \_\_\_\_\_ SPDI \_\_\_\_\_ Encode/Transl  
\_\_\_\_ Other (specify)

=> fil reg

FILE 'REGISTRY' ENTERED AT 14:55:39 ON 15 AUG 2005  
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 COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file  
 provided by InfoChem.

STRUCTURE FILE UPDATES: 14 AUG 2005 HIGHEST RN 860111-75-7  
 DICTIONARY FILE UPDATES: 14 AUG 2005 HIGHEST RN 860111-75-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when  
 conducting SmartSELECT searches.

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*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005. A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*
*****

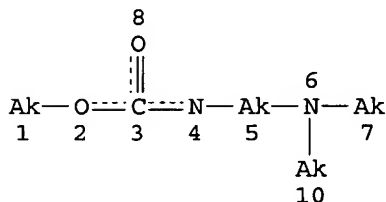
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Structure search iteration limits have been increased. See HELP SLIMITS  
 for details.

Experimental and calculated property data are now available. For more  
 information enter HELP PROP at an arrow prompt in the file or refer  
 to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d sta que l23

L21 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

L23 143 SEA FILE=REGISTRY CSS FUL L21

100.0% PROCESSED 749394 ITERATIONS  
 SEARCH TIME: 00.00.12

143 ANSWERS

=> d que l19

L17 2480 SEA FILE=REGISTRY ABB=ON PLU=ON 2508/RID AND SC2SC2-C6-C6/ES

L19 105 SEA FILE=REGISTRY ABB=ON PLU=ON 2508.49/RID AND L17

=> d his

(FILE 'HOME' ENTERED AT 14:41:36 ON 15 AUG 2005)  
SET COST OFF

FILE 'HCAPLUS' ENTERED AT 14:41:43 ON 15 AUG 2005

L1 1 S (WO2003-EP6892 OR DE2002-10232752)/AP,PRN  
E AMMERMAN/AU  
L2 6 S E21-E23  
E AMMERMANN/AU  
L3 582 S E11-E13,E15  
E STIERL R/AU  
L4 147 S E3-E5  
E SCHOFU U/AU  
L5 2 S E3,E4  
E SCHOEFL U/AU  
L6 84 S E4  
E SCHELBERGER K/AU  
L7 123 S E3,E4  
E SCHERER M/AU  
L8 211 S E3-E9,E15  
SEL RN L1

FILE 'REGISTRY' ENTERED AT 14:44:19 ON 15 AUG 2005

L9 1 S E1  
L10 1 S 3347-22-6  
L11 1 S 24579-73-5  
L12 45 S 3347-22-6/CRN  
L13 63 S 24579-73-5/CRN  
L14 1 S L12 AND L13  
L15 STR  
L16 6 S L15  
L17 2480 S 2508/RID AND SC2SC2-C6-C6/ES  
L18 20 S SC2SC2-C6-C6/ES NOT L17  
L19 105 S 2508.49/RID AND L17  
L20 2375 S L17 NOT L19  
L21 STR  
L22 0 S L21 CSS SAM  
L23 143 S L21 CSS FUL  
SAV L23 QAZI518/A  
L24 1 S L23 AND L19  
L25 0 S L23 AND L20  
L26 1 S L9,L14,L24

FILE 'HCAOLD' ENTERED AT 14:49:11 ON 15 AUG 2005

L27 0 S L26

FILE 'HCAPLUS' ENTERED AT 14:49:15 ON 15 AUG 2005

L28 1 S L26  
L29 25 S L10,L19,L20 AND L11,L23  
L30 1 S L28 AND L29

L31 1 S L1-L8 AND L30  
 L32 1 S L1-L8 AND L29  
 L33 0 S L32 NOT L31  
 L34 1 S L30-L32  
 L35 24 S L29 NOT L34  
 L36 1 S L35 AND BASF?/PA,CS  
 L37 2 S L34,L36  
 L38 23 S L29 NOT L37  
 L39 22 S L38 AND (PY<=2003 OR PRY<=2003 OR AY<=2003)  
 L40 18 S L38 AND (PY<=2002 OR PRY<=2002 OR AY<=2002)  
 L41 22 S L39,L40  
 SEL HIT RN

FILE 'REGISTRY' ENTERED AT 14:52:43 ON 15 AUG 2005

L42 14 S E2-E15  
 L43 8 S L42 AND L23  
 L44 6 S L42 AND L19  
 L45 1 S L44 AND 1/NC  
 L46 1 S L43 AND 1/NC  
 L47 1 S L43 AND 2/NC AND CLH

FILE 'HCAPLUS' ENTERED AT 14:54:07 ON 15 AUG 2005

L48 21 S L45 AND L46,L47  
 L49 20 S L48 AND (PY<=2003 OR PRY<=2003 OR AY<=2003)

FILE 'USPATFULL' ENTERED AT 14:55:06 ON 15 AUG 2005

L50 0 S L26

FILE 'REGISTRY' ENTERED AT 14:55:39 ON 15 AUG 2005

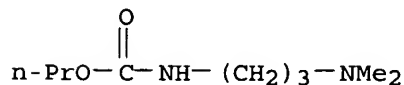
=> d ide can l26

L26 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN  
 RN 649554-51-8 REGISTRY  
 ED Entered STN: 12 Feb 2004  
 CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester, mixt. with  
 5,10-dihydro-5,10-dioxonaphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile (9CI)  
 (CA INDEX NAME)  
 MF C14 H4 N2 O2 S2 . C9 H20 N2 O2  
 CI MXS  
 SR CA  
 LC STN Files: CA, CAPLUS

CM 1

CRN 24579-73-5

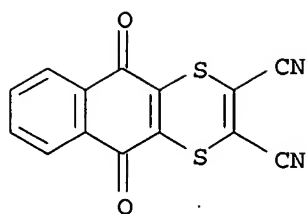
CMF C9 H20 N2 O2



CM 2

CRN 3347-22-6

CMF C14 H4 N2 O2 S2



1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:124032

=> d ide can 145

L45 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN

RN 3347-22-6 REGISTRY

ED Entered STN: 16 Nov 1984

CN Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo-  
 (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Naphtho[2,3-b]-p-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo-  
 (6CI, 7CI, 8CI)

OTHER NAMES:

CN 1,4-Dithiaanthraquinone-2,3-dicarbonitrile

CN 2,3-Dicyano-1,4-dithiaanthraquinone

CN 2,3-Dinitrilo-1,4-dithia-9,10-anthraquinone

CN 2,3-Dinitrilo-1,4-dithiaanthraquinone

CN Delan

CN Delan (fungicide)

CN Delan 75SC

CN Delan WP

CN Delan-Col

CN Dithianon

CN Dithianone

CN MV 119A

CN NSC 218452

CN Stauffer MV 119A

CN Thynon

FS 3D CONCORD

DR 11096-35-8, 95591-89-2

MF C14 H4 N2 O2 S2

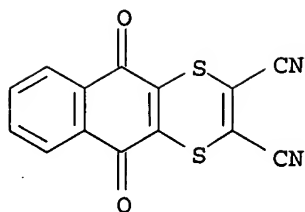
CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOBUSINESS, BIOSIS,  
 BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS,  
 CHEMLIST, CSCHEM, CSNB, DDFU, DRUGU, EMBASE, HODOC\*, HSDB\*, IFICDB,  
 IFIPAT, IFIUDB, MEDLINE, MRCK\*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS\*,  
 SPECINFO, TOXCENTER, ULIDAT, USPAT2, USPATFULL, VTB

(\*File contains numerically searchable property data)

Other Sources: EINECS\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

362 REFERENCES IN FILE CA (1907 TO DATE)  
 26 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 362 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 12 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 143:110988  
 REFERENCE 2: 143:92513  
 REFERENCE 3: 143:77034  
 REFERENCE 4: 143:28318  
 REFERENCE 5: 142:458611  
 REFERENCE 6: 142:425351  
 REFERENCE 7: 142:405827  
 REFERENCE 8: 142:387616  
 REFERENCE 9: 142:256084  
 REFERENCE 10: 142:109645

=> d ide can l46

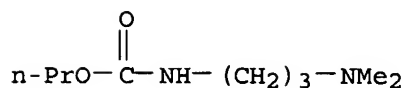
L46 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN  
 RN 24579-73-5 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN N-(γ-Dimethylaminopropyl)carbamic acid propyl ester  
 CN Nor-Am 39744  
 CN Plantacur  
 CN Plantacur E  
 CN Propamocarb  
 CN SN 39744  
 FS 3D CONCORD  
 MF C9 H20 N2 O2  
 CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSChem, CSNB, EMBASE, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK\*, PROMT,

RTECS\*, TOXCENTER, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)



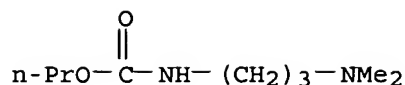
**\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\***

193 REFERENCES IN FILE CA (1907 TO DATE)  
 22 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 195 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:111105  
 REFERENCE 2: 143:77034  
 REFERENCE 3: 143:42829  
 REFERENCE 4: 143:28318  
 REFERENCE 5: 142:425351  
 REFERENCE 6: 142:425344  
 REFERENCE 7: 142:409874  
 REFERENCE 8: 142:387616  
 REFERENCE 9: 142:260239  
 REFERENCE 10: 142:128931

=> d ide can l47

L47 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN  
 RN 25606-41-1 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester, monohydrochloride  
 (8CI, 9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN Previcur N  
 CN Propamocarb hydrochloride  
 CN Propyl 3-(dimethylamino)propylcarbamate monohydrochloride  
 CN SN 66752  
 DR 70323-53-4  
 MF C9 H20 N2 O2 . Cl H  
 CI COM  
 LC STN Files: AGRICOLA, BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, CBNB,  
 CHEMCATS, CHEMLIST, CIN, CSCHEM, IFICDB, IFIPAT, IFIUDB, MRCK\*, PROMT,  
 RTECS\*, TOXCENTER, ULIDAT, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)  
 CRN (24579-73-5)



● HCl

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

91 REFERENCES IN FILE CA (1907 TO DATE)  
 5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 91 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:110997  
 REFERENCE 2: 143:21382  
 REFERENCE 3: 143:2615  
 REFERENCE 4: 142:463607  
 REFERENCE 5: 142:425351  
 REFERENCE 6: 142:387617  
 REFERENCE 7: 142:387616  
 REFERENCE 8: 142:387541  
 REFERENCE 9: 142:369231  
 REFERENCE 10: 142:331183

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 14:56:21 ON 15 AUG 2005  
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FILE COVERS 1907 - 15 Aug 2005 VOL 143 ISS 8  
 FILE LAST UPDATED: 14 Aug 2005 (20050814/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> => d all hitstr l37 tot

L37 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2004:80427 HCAPLUS  
 DN 140:124032  
 ED Entered STN: 01 Feb 2004  
 TI Synergistic fungicidal mixtures of dithianon and propamocarb  
 IN Ammermann, Eberhard; Stierl, Reinhard; Schoefl, Ulrich; Schelberger, Klaus; Scherer, Maria; Henningsen, Michael; Gold, Randall Even  
 PA Basf Aktiengesellschaft, Germany  
 SO PCT Int. Appl., 15 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA German  
 IC ICM A01N047-12  
 ICS A01N043-32  
 CC 5-2 (Agrochemical Bioregulators)  
 FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE         |
|------|---|------|----------|-----------------|--------------|
| PI   | WO 2004008862   | A1   | 20040129 | WO 2003-EP6892  | 20030630 <-- |
|      | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW |      |          |                 |              |
|      | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  |      |          |                 |              |
|      | CA 2492451  | AA   | 20040129 | CA 2003-2492451 | 20030630 <-- |
|      | BR 2003012307   | A    | 20050412 | BR 2003-12307   | 20030630 <-- |
|      | EP 1524906  | A1   | 20050427 | EP 2003-740378  | 20030630 <-- |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK   |      |          |                 |              |
| PRAI | DE 2002-10232752  | A    | 20020718 | <--             |              |
|      | WO 2003-EP6892  | W    | 20030630 | <--             |              |

# CLASS

|        | PATENT NO.  | CLASS  | PATENT FAMILY CLASSIFICATION CODES |
|--------|---|--|------------------------------------|
|        | WO 2004008862   | ICM  | A01N047-12                         |
|        |   | ICS  | A01N043-32                         |
|        | WO 2004008862   | ECLA   | A01N043/32; A01N047/12+M <--       |
| AB     | Fungicidal mixts. effective against a broad range of phytopathogenic fungi contain a synergistically active amount of dithianon and propamocarb. Thus, propamocarb + dithianon at 15 + 15 ppm synergistically controlled downy mildew (Plasmopara viticola) in grape. |  |                                    |
| ST     | synergism fungicide dithianon propamocarb   |  |                                    |
| IT     | Fungicides  |  |                                    |
|        | (synergistic; dithianon-propamocarb mixts. as)  |  |                                    |
| IT     | 649554-51-8   |  |                                    |
|        | RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  |  |                                    |
|        | (as synergistic fungicide)  |  |                                    |
| RE.CNT | 1   | THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD |                                    |

RE

(1) Zanardi, G; WO 9826654 A 1998 HCAPLUS

IT 649554-51-8

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL  
(Biological study); USES (Uses)  
(as synergistic fungicide)

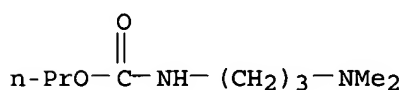
RN 649554-51-8 HCAPLUS

CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester, mixt. with  
5,10-dihydro-5,10-dioxonaphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile (9CI)  
(CA INDEX NAME)

CM 1

CRN 24579-73-5

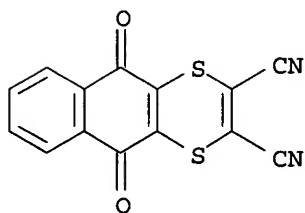
CMF C9 H20 N2 O2



CM 2

CRN 3347-22-6

CMF C14 H4 N2 O2 S2



L37 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2003:470253 HCAPLUS

DN 139:32098

ED Entered STN: 20 Jun 2003

TI Solvent-free suspensions of water-insoluble pesticides with low melting  
point.

IN Bratz, Matthias; Jaeger, Karl-Friedrich

PA BASF Aktiengesellschaft, Germany

SO Eur. Pat. Appl., 19 pp.

CODEN: EPXXDW

DT Patent

LA German

IC ICM A01N025-04

ICS A01N025-14

CC 5-4 (Agrochemical Bioregulators)

FAN.CNT 1

|    | PATENT NO. | KIND | DATE     | APPLICATION NO. | DATE     |
|----|------------|------|----------|-----------------|----------|
|    | -----      | ---  | -----    | -----           | -----    |
| PI | EP 1319336 | A1   | 20030618 | EP 2002-26571   | 20021128 |
|    | EP 1319336 | B1   | 20040623 |                 |          |

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK

JP 2003238303 A2 20030827 JP 2002-362122 20021213  
US 2003148887 A1 20030807 US 2002-319714 20021216  
US 6869914 B2 20050322

PRAI DE 2001-10162059 A 20011217

## CLASS

| PATENT NO.    | CLASS | PATENT FAMILY CLASSIFICATION CODES   |
|---------------|-------|--|
| EP 1319336    | ICM   | A01N025-04   |
|               | ICS   | A01N025-14   |
| EP 1319336    | ECLA  | A01N025/04; A01N025/14; A01N037/38+M; A01N043/40+M;<br>A01N043/56+M  |
| US 2003148887 | NCL   | 504/197.000  |
|               | ECLA  | A01N025/04; A01N025/14; A01N037/38+M; A01N043/40+M;<br>A01N043/56+M  |
| AB            |       | A suspension, made from 1-40 % by weight silica in 40-97 % water, in the presence of 1-40 dispersing agent, is treated with 1-25 % of the molten pesticide(s) (m.p. <80°). The invention also serves for the preparation of water-dispersible powders and granules.  |
| ST            |       | pesticide suspension   |
| IT            |       | Pesticide formulations<br>(solvent-free pesticide suspensions)   |
| IT            |       | 7631-86-9, Silica, uses<br>RL: MOA (Modifier or additive use); USES (Uses)<br>(carrier; solvent-free pesticide suspensions)  |
| IT            |       | 8061-51-6, Ufoxane 3A<br>RL: MOA (Modifier or additive use); USES (Uses)<br>(dispersing agent, Ufoxane 3A and Diwatex 200; solvent-free pesticide suspensions)   |
| IT            |       | 9017-33-8, Tamol NH 245670-49-9, Wettol D1<br>RL: MOA (Modifier or additive use); USES (Uses)<br>(dispersing agent; solvent-free pesticide suspensions)  |
| IT            |       | 52-68-6, Trichlorfon 72-43-5, Methoxychlor 86-50-0, Azinphosmethyl 115-29-7, Endosulfan 119-12-0, Pyridaphenthion 133-06-2, Captan 133-07-3, Folpan 534-52-1, DNOC 709-98-8, Propanil 732-11-6, Phosmet 1129-41-5, Metolcarb 1420-07-1, Dinoterb 1582-09-8, Trifluralin 1593-77-7, Dodemorph 1689-84-5, Bromoxynil 1861-40-1, Benfluralin 2274-67-1, Dimethylvinphos 2425-10-7, Xylcarb. 2642-71-9, Azinphosethyl 2921-88-2, Chlorpyrifos 3347-22-6, Dithianon 3861-47-0, Ioxynil octanoate 7696-12-0, Tetramethrin 8018-01-7, Mancozeb 9006-42-2, Metiram 10453-86-8, Resmethrin 10552-74-6, Nitrothal isopropyl 10605-21-7, Carbendazim 15299-99-7, Napropamide 23564-06-9, Thiophanate- 25606-41-1, Propamocarb hydrochloride 26225-79-6, Ethofumesate 29104-30-1, Benzoximate 31717-87-0, Dodemorph acetate 35554-44-0, Imazalil 39196-18-4, Thiofanox 39300-45-3, Dinocap 40487-42-1, Pendimethalin 42874-03-3, Oxyfluorfen 51630-58-1, Fenvalerate 52315-07-8, Betacypermethrin 52918-63-5, Deltamethrin 55512-33-9, Pyridate 60207-90-1, Propiconazole 61213-25-0, 64249-01-0, Anilofos 66230-04-4, >Esfenvalerate 66246-88-6, Penconazole 67306-00-7, Fenpropiadin 67375-30-8, Alphacypermethrin 67564-91-4, Fenpropimorph 67747-09-5, Prochloraz 69806-40-2, Haloxypmethyl 69806-42-4, Haloxyp ethyl 72490-01-8, Fenoxycarb 77501-90-7, Fluoroglycofenethyl 85509-19-9, Flusilazole 88671-89-0, Myclobutanil 100646-51-3 105024-66-6, Silafluofen 105512-06-9, Clodinafoppropargyl 110488-70-5, Dimethomorph 112143-82-5, Triazamate 117428-22-5, Picoxystrobin 118134-30-8, Spiroxamine 119738-06-6 120116-88-3, IKF 916 121552-61-2, Cyprodinil 122008-85-9, Cyhalofopbutyl 124495-18-7, Quinoxifen 125116-23-6, Metconazole 131860-33-8, Azoxystrobin 133855-98-8, Epoxiconazole |

140923-17-7, Iprovalicarb 141517-21-7, Trifloxystrobin 142459-58-3,  
 Flufenacet 143390-89-0, KresoximMethyl 149961-52-4 175013-18-0,  
 Pyraclostrobin 540740-29-2, Proazolthion  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (solvent-free pesticide suspensions)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Hoechst Ag; EP 0145879 A 1985 HCAPLUS

(2) Morgan, L; US 5624884 A 1997 HCAPLUS

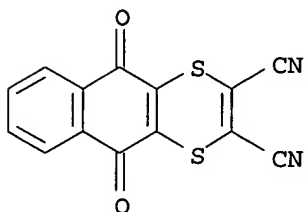
(3) Rohm & Haas; EP 1060667 A 2000 HCAPLUS

IT 3347-22-6, Dithianon 25606-41-1, Propamocarb  
 hydrochloride

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (solvent-free pesticide suspensions)

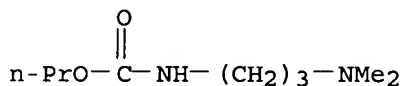
RN 3347-22-6 HCAPLUS

CN Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo-  
 (9CI) (CA INDEX NAME)



RN 25606-41-1 HCAPLUS

CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester, monohydrochloride  
 (8CI, 9CI) (CA INDEX NAME)



● HCl

=> s 141 not 137

L51 22 L41 NOT L37

=> d bib abs hitstr retable tot

L51 ANSWER 1 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:471844 HCAPLUS

DN 143:28318

TI Micronized wood preservative formulations

IN Leach, Robert M.; Zhang, Jun

PA USA

SO U.S. Pat. Appl. Publ., 21 pp., Cont.-in-part of U.S. Ser. No. 821,326.

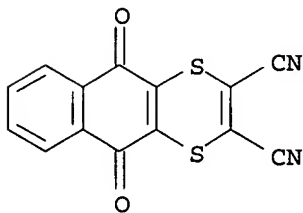
CODEN: USXXCO

DT Patent

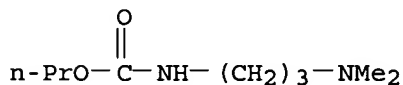
LA English

FAN.CNT 2

|      | PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE         |
|------|--|------|----------|-----------------|--------------|
| PI   | US 2005118280  | A1   | 20050602 | US 2004-970446  | 20041021 <-- |
|      | US 2004258767  | A1   | 20041223 | US 2004-821326  | 20040409 <-- |
| PRAI | US 2003-461547P  | P    | 20030409 | <--             |              |
|      | US 2003-518994P  | P    | 20031111 | <--             |              |
|      | US 2004-821326   | A2   | 20040409 |                 |              |
|      | US 2004-568485P  | P    | 20040506 |                 |              |
| AB   | The wood preservative compns. comprising micronized particles. The composition comprises dispersions of micronized metal or metal compds. The wood preservative composition comprises an inorg. component comprising a metal or metal compound and organic biocide. When the composition comprises an inorg. component and an organic biocide, the inorg. component or the organic biocide |      |          |                 |              |
| or   | both are present as micronized particles. When used for preservation of wood, the micronized particles can be observed as uniformly distributed within the wood and there is minimal leaching of the metal and biocide from the wood.  |      |          |                 |              |
| IT   | 3347-22-6, Dithianon 24579-73-5, Propamocarb<br>RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)<br>(micronized wood preservative formulations comprising inorg. metal compds. and organic biocides)   |      |          |                 |              |
| RN   | 3347-22-6 HCAPLUS  |      |          |                 |              |
| CN   | Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo-(9CI) (CA INDEX NAME)   |      |          |                 |              |



RN 24579-73-5 HCAPLUS  
CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester (8CI, 9CI) (CA INDEX NAME)

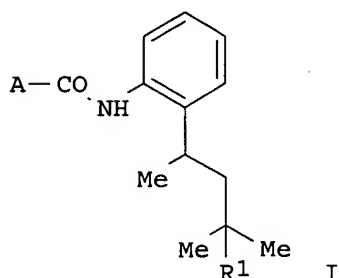


L51 ANSWER 2 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN  
AN 2005:405320 HCAPLUS  
DN 142:425351  
TI Synergistic fungicidal combinations comprising a carboxamide derivative  
IN Wachendorff-Neumann, Ulrike; Dahmen, Peter; Dunkel, Ralf; Elbe, Hans-Ludwig; Rieck, Heiko; Suty-Heinze, Anne  
PA Bayer Cropscience Aktiengesellschaft, Germany  
SO PCT Int. Appl., 126 pp.  
CODEN: PIXXD2  
DT Patent

LA German

FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO.  | DATE         |
|------|---|------|----------|------------------|--------------|
| PI   | WO 2005041653   | A2   | 20050512 | WO 2004-EP11403  | 20041012 <-- |
|      | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW |      |          |                  |              |
|      | RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  |      |          |                  |              |
|      | DE 10349501   | A1   | 20050525 | DE 2003-10349501 | 20031023 <-- |
| PRAI | DE 2003-10349501  | A    | 20031023 | <--              |              |
| OS   | MARPAT 142:425351   |      |          |                  |              |
| GI   |   |      |          |                  |              |



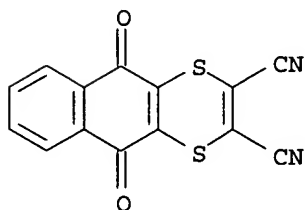
AB Synergistic fungicidal combinations comprise a carboxamide derivative I [R1 = H, halo or (halo)alkyl; R1 = (un)substituted Ph, furyl, pyridinyl, etc.] and any of a very large number of known fungicides.

IT 3347-22-6D, Dithianone, mixture with carboxamide derivative  
 24579-73-5D, Propamocarb, mixture with carboxamide derivative  
 25606-41-1D, Propamocarbhydrochloride, mixture with carboxamide derivative  
 237055-17-3D, mixture with carboxamide derivative  
 851019-02-8

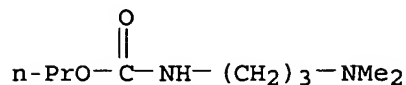
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicidal composition)

RN 3347-22-6 HCAPLUS

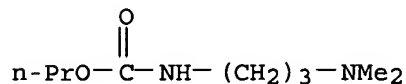
CN Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo-  
 (9CI) (CA INDEX NAME)



RN 24579-73-5 HCAPLUS  
 CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester (8CI, 9CI) (CA INDEX NAME)



RN 25606-41-1 HCAPLUS  
 CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester, monohydrochloride (8CI, 9CI) (CA INDEX NAME)

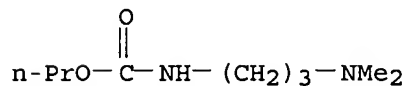


● HCl

RN 237055-17-3 HCAPLUS  
 CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester, mono(ethyl phosphonate) (9CI) (CA INDEX NAME)

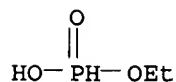
CM 1

CRN 24579-73-5  
 CMF C9 H20 N2 O2



CM 2

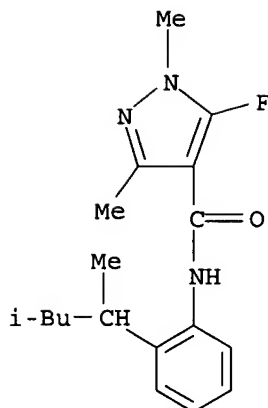
CRN 15845-66-6  
 CMF C2 H7 O3 P



RN 851019-02-8 HCAPLUS  
 CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester, mixt. with N-[2-(1,3-dimethylbutyl)phenyl]-5-fluoro-1,3-dimethyl-1H-pyrazole-4-carboxamide (9CI) (CA INDEX NAME)

CM 1

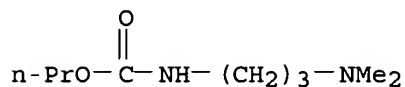
CRN 494793-67-8  
 CMF C18 H24 F N3 O



CM 2

CRN 24579-73-5

CMF C9 H20 N2 O2

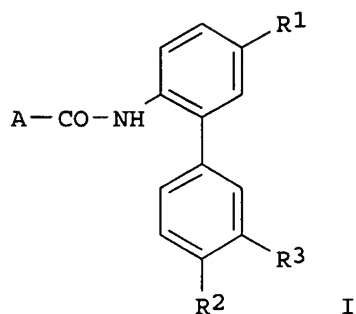


L51 ANSWER 3 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2005:346774 HCAPLUS  
 DN 142:387616  
 TI Synergistic fungicidal combinations comprising carboxamide derivatives  
 IN Wachendorff-Neumann, Ulrike; Dahmen, Peter; Dunkel, Ralf; Elbe,  
 Hans-Ludwig; Suty-Heinze, Anne; Rieck, Heiko  
 PA Bayer Cropscience Aktiengesellschaft, Germany  
 SO PCT Int. Appl., 141 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA German  
 FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO.  | DATE         |
|------|---|------|----------|------------------|--------------|
| PI   | WO 2005034628   | A1   | 20050421 | WO 2004-EP10830  | 20040928 <-- |
|      | W:  |      |          |                  |              |
|      | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, |      |          |                  |              |
|      | CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, |      |          |                  |              |
|      | GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, |      |          |                  |              |
|      | LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, |      |          |                  |              |
|      | NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, |      |          |                  |              |
|      | TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, |      |          |                  |              |
|      | RW:   |      |          |                  |              |
|      | BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, |      |          |                  |              |
|      | AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, |      |          |                  |              |
|      | EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, |      |          |                  |              |
|      | SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, |      |          |                  |              |
|      | SN, TD, TG  |      |          |                  |              |
|      | DE 10347090   | A1   | 20050504 | DE 2003-10347090 | 20031010 <-- |
| PRAI | DE 2003-10347090  | A    | 20031010 | <--              |              |



OS MARPAT 142:387616  
GI

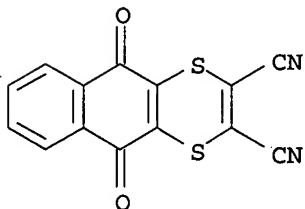


AB Synergistic fungicidal mixts. comprise a carboxamide derivative I [R1= H or F; R2 = halo, (halo)alkyl or (halo)alkoxy; , R3 = H, halo or (halo)alkyl; A = (un)substituted Ph, imidazolyl, thiazolyl, etc.] and any of 22 groups of known fungicides.

IT 3347-22-6D, Dithianone, mixture with carboxamide derivative  
24579-73-5D, Propamocarb, mixture with carboxamide derivative  
25606-41-1D, Propamocarbhydrochloride, mixture with carboxamide derivative  
237055-17-3D, mixture with carboxamide derivative  
849674-76-6  
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(synergistic fungicidal combination)

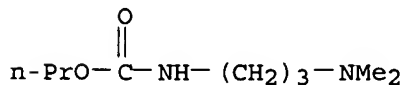
RN 3347-22-6 HCAPLUS

CN Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo-  
(9CI) (CA INDEX NAME)



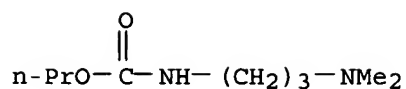
RN 24579-73-5 HCAPLUS

CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester (8CI, 9CI) (CA INDEX NAME)



RN 25606-41-1 HCAPLUS

CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester, monohydrochloride  
(8CI, 9CI) (CA INDEX NAME)



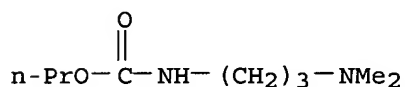
● HCl

RN 237055-17-3 HCAPLUS  
 CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester, mono(ethyl phosphonate) (9CI) (CA INDEX NAME)

CM 1

CRN 24579-73-5

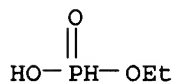
CMF C9 H20 N2 O2



CM 2

CRN 15845-66-6

CMF C2 H7 O3 P

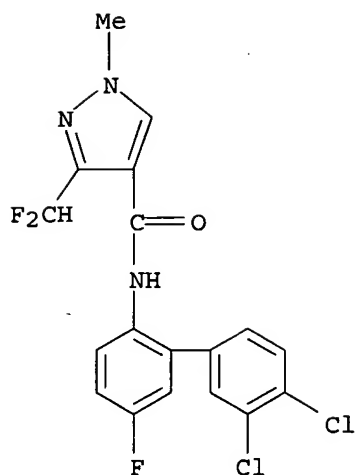


RN 849674-76-6 HCAPLUS  
 CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester, mixt. with N-(3',4'-dichloro-5-fluoro[1,1'-biphenyl]-2-yl)-3-(difluoromethyl)-1-methyl-1H-pyrazole-4-carboxamide (9CI) (CA INDEX NAME)

CM 1

CRN 581809-46-3

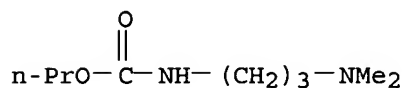
CMF C18 H12 Cl2 F3 N3 O



CM 2

CRN 24579-73-5

CMF C9 H20 N2 O2



## RETABLE

| Referenced Author<br>(RAU) | Year<br>(RPY) | VOL<br>(RVL) | PG<br>(RPG) | Referenced Work<br>(RWK) | Referenced<br>File |
|----------------------------|---------------|--------------|-------------|--------------------------|--------------------|
| Basf Ag                    | 1993          |              |             | EP 0545099 A             | HCAPLUS            |
| Basf Ag                    | 1994          |              |             | EP 0589301 A             | HCAPLUS            |
| Basf Ag                    | 1997          |              |             | WO 9708952 A             | HCAPLUS            |
| Basf Ag                    | 1997          |              |             | WO 9710716 A             | HCAPLUS            |
| Basf Ag                    | 2002          |              |             | EP 1214881 A             | HCAPLUS            |
| Leyendecker, J             | 1998          |              |             | WO 9808385 A             | HCAPLUS            |
| Novartis Erfind Verwalt    | 1999          |              |             | WO 9963813 A             | HCAPLUS            |
| Schelberger, K             | 1999          |              |             | WO 9931980 A             | HCAPLUS            |
| Schelberger, K             | 1999          |              |             | WO 9931985 A             | HCAPLUS            |
| Strathmann, S              | 1997          |              |             | WO 9739630 A             | HCAPLUS            |

L51 ANSWER 4 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:796496 HCAPLUS

DN 141:290547

TI Fungicidal compositions comprising N-phenyl-N-[4-(4-pyridyl)-2-pyrimidin-2-yl]amine derivatives

IN Ackerman, Peter; Stierli, Daniel; Jung, Pierre Marcel Joseph; Maienfisch, Peter; Cederbaum, Fredrik Emil Malcolm; Wenger, Jean-Frederic

PA Syngenta Participations AG, Switz.

SO Brit. UK Pat. Appl., 112 pp.

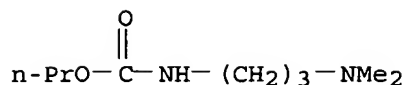
CODEN: BAXXDU

DT Patent

LA English

FAN.CNT 1





## RETABLE

| Referenced Author<br>(RAU) | Year<br>(RPY) | VOL<br>(RVL) | PG<br>(RPG) | Referenced Work<br>(RWK) | Referenced<br>File |
|----------------------------|---------------|--------------|-------------|--------------------------|--------------------|
| =====                      | -----         | -----        | -----       | -----                    | -----              |
| Anon                       |               |              |             | WO 2001093682 A1         |                    |
| Anon                       |               |              |             | WO 2002053560 A1         |                    |
| Anon                       |               |              |             | WO 2003047347 A1         |                    |

L51 ANSWER 5 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:467672 HCAPLUS

DN 141:19157

TI Fungicidal compositions containing phosphites

IN Garavaglia, Carlo; Miredda, Luigi; Osti, Samuele; Puppin, Osvaldo

PA Isagro S.p.A., Italy

SO PCT Int. Appl., 36 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

|    | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE         |
|----|---|------|----------|-----------------|--------------|
|    | -----   | ---- | -----    | -----           | -----        |
| PI | WO 2004047540   | A2   | 20040610 | WO 2003-EP12943 | 20031118 <-- |
|    | WO 2004047540   | A3   | 20040923 |                 |              |
|    | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW |      |          |                 |              |
|    | RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  |      |          |                 |              |

PRAI IT 2002-MI2516 A 20021127 &lt;--

AB Fungicidal compns. are described, consisting of mixts. comprising salts of an alkaline or alkaline-earth metal, Mn or Zn of phosphorous acid and at least a

second component selected from compds. having an antifungal activity. The component having an antifungal activity can be selected, for example, from IR5885, IR6141, copper(I) or copper(II) salts (such as copper oxychloride, copper hydroxide, tribasic copper sulfate), dithiocarbamates (such as mancozeb, zineb, propineb), folpet, etc.

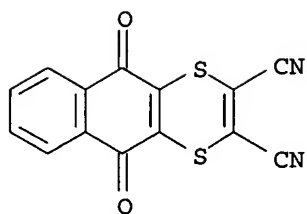
IT 3347-22-6D, Dithianon, mixts. with phosphites 24579-73-5D

, Propamocarb, mixts. with phosphites

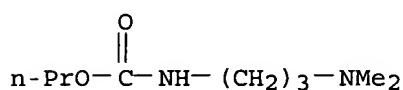
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (fungicidal compns.)

RN 3347-22-6 HCAPLUS

CN Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo-(9CI) (CA INDEX NAME)



RN 24579-73-5 HCAPLUS  
 CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester (8CI, 9CI) (CA INDEX NAME)



L51 ANSWER 6 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:447099 HCAPLUS

DN 141:2859

TI Synergistic insecticidal, acaricidal, nematocidal, and bactericidal compositions, and pest control with them

IN Miyake, Toshiro; Inoue, Kohei

PA Nissan Chemical Industries, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 88 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE         |
|------|----------------|------|----------|-----------------|--------------|
| PI   | JP 2004155693  | A2   | 20040603 | JP 2002-322041  | 20021106 <-- |
| PRAI | JP 2002-322041 |      | 20021106 | <--             |              |

OS MARPAT 141:2859

AB Title compns. contain GC6H4C(CN):C(A)OB [A = (un)substituted heterocyclyl; B = H, C1-4 haloalkyl, tetrahydropyranyl, SiMe<sub>3</sub>, alkali metal, etc.; G = H, halo, C1-6 alkyl, (un)substituted C3-6 cycloalkyl, C1-4 haloalkoxy, C1-4 alkylsulfinyl, C1-4 alkylsulfonyl, NO<sub>2</sub>, CN, naphthyl, etc.] and ≥1 compds. chosen from conventional pesticides, e.g. anilazine, benalaxyl, benomyl, binapacryl, etc. Thus, concomitant use of 2-(4-chlorophenyl)-3-(1,3,4-trimethylpyrazol-5-yl)-3-hydroxyacrylonitrile and Ca polysulfide showed synergistic acaricidal activity against Aculops pelekassi.

IT 3347-22-6D, Dithianon, mixts. containing 25606-41-1D,

Propamocarb hydrochloride, mixts. containing

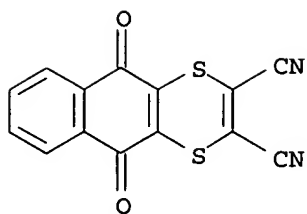
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL

(Biological study); USES (Uses)

(preparation of acrylonitriles and synergistic pesticides containing them)

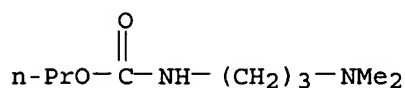
RN 3347-22-6 HCAPLUS

CN Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo- (9CI) (CA INDEX NAME)



RN 25606-41-1 HCAPLUS.

CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester, monohydrochloride (8CI, 9CI) (CA INDEX NAME)



● HCl

L51 ANSWER 7 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2003:841590 HCAPLUS

DN 139:392514

TI Bactericidal composite with pyrimethanil

IN Ma, Yunsheng; Shi, Qingling; Xu, Boyong

PA Wang, Peide, Peop. Rep. China; Wen, Peihong; Meng, Zhen; Yang, Jinghua

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 11 pp.

CODEN: CNXXEV

DT Patent

LA Chinese

FAN.CNT 1

|      | PATENT NO.     | KIND | DATE         | APPLICATION NO. | DATE         |
|------|----------------|------|--------------|-----------------|--------------|
| PI   | CN 1385069     | A    | 20021218     | CN 2001-118007  | 20010515 <-- |
| PRAI | CN 2001-118007 |      | 20010515 <-- |                 |              |

AB The title composite contains pyrimethanil, and at least one of systemic, contact and/or soil bactericides. The systemic bactericide may be from benalaxyl, cymoxani, cyprofuran, metalaxyl, ofurace, oxadixyl, fesetyl-aluminum, H<sub>3</sub>PO<sub>3</sub>, phosphite, carbendazim, albendazole, benomyl, thiabendazole, thiophanate Me, tricyclazole, triadimefon, diniconazole, bismethiazol, bitertanol, flutriafol, jinggangmycin, polyoxin, propiconazole, fenarimol, dimethomorph and kresoxim-methyl; the contact bactericide from anilazine, captafol, captan, chlorothalonil, dithianon, triphenyltin acetate, folpet, Cu, Cu<sub>2</sub>OCl<sub>2</sub>, mancozeb, maneb, metiram, propineb, zineb, thiram, ziram, amobam, asomate, iprodione, and S; and the soil bactericide from etridiazole, fenaminosulf, oxadixyl, propamocarb and prothiocarb. The ratio of pyrimethanil to the bactericide is 1:150-80:1, preferably 1:30-30:1. Some adjunctants, fillers and surfactant may be added to the composite. The product is wide-spectrum, and highly effective.

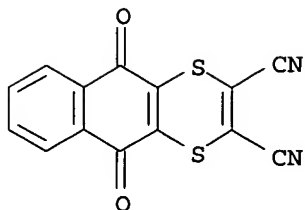
IT 3347-22-6 24579-73-5

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(pyrimethanil-containing bactericidal composite)

RN 3347-22-6 HCAPLUS

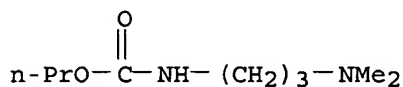
CN Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo-

(9CI) (CA INDEX NAME)



RN 24579-73-5 HCAPLUS

CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester (8CI, 9CI) (CA INDEX NAME)



L51 ANSWER 8 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2003:685971 HCAPLUS

DN 139:192912

TI Synergistic microbicidal compositions for agriculture and horticulture

IN Furuse, Katsumi; Miyake, Hiroshi; Nagayama, Kozo

PA Kumiai Chemical Industry Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

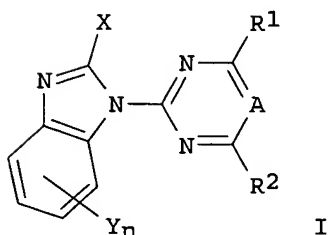
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

|      | PATENT NO.        | KIND | DATE     | APPLICATION NO. | DATE         |
|------|-------------------|------|----------|-----------------|--------------|
| PI   | JP 2003246704     | A2   | 20030902 | JP 2002-46620   | 20020222 <-- |
| PRAI | JP 2002-46620     |      | 20020222 | <--             |              |
| OS   | MARPAT 139:192912 |      |          |                 |              |
| GI   |                   |      |          |                 |              |



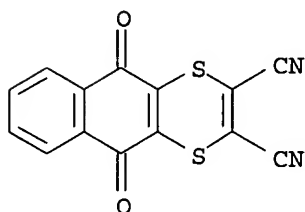
I

AB A synergistic microbicidal composition contains  $\geq 1$  compound selected from pyrimidinyl-benzimidazole, triazinyl-benzimidazole derivs. (I) where A = CR3 [R3 being H or (C1-6) alkyl]i R1 and R2 = H, halo, alkyl, etc.; X = H,

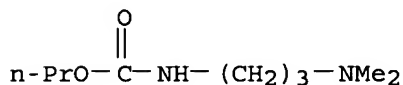


halo, nitro, cyano, etc.; Y = halo, nitro, alkyl, alkenyl, etc., in combination with  $\geq 1$  compound selected from the group consisting of agricultural microbicides, is presented. This composition is stable, highly active at low concns., against a wide spectrum of microorganisms including those resistant to conventional microbicides.

IT 3347-22-6, Dithianone 25606-41-1, Propamocarb hydrochloride  
 RL: AGR (Agricultural use); BCP (Biochemical process); BIOL (Biological study); PROC (Process); USES (Uses)  
 (in synergistic microbicidal compns. for agriculture and horticulture)  
 RN 3347-22-6 HCAPLUS  
 CN Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo- (9CI) (CA INDEX NAME)



RN 25606-41-1 HCAPLUS  
 CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester, monohydrochloride (8CI, 9CI) (CA INDEX NAME)

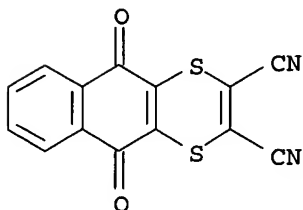


● HCl

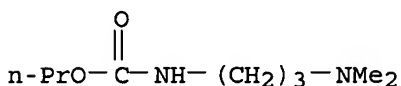
L51 ANSWER 9 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2003:418082 HCAPLUS  
 DN 138:364172  
 TI Synergistic compound fungicide  
 IN Xu, Boyong; Guo, Xiao; Xu, Xu  
 PA Ma, Yunshen, Peop. Rep. China; Wang, Peide; Shi, Qingling; Wen, Peihong; Lu, Hongmei; Zhao, Chuanhua  
 SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 11 pp.  
 CODEN: CNXXEV  
 DT Patent  
 LA Chinese  
 FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE         |
|------|---|------|----------|-----------------|--------------|
| PI   | CN 1359620  | A    | 20020724 | CN 2000-135791  | 20001221 <-- |
| PRAI | CN 2000-135791  |      | 20001221 | <--             |              |
| AB   | The title compound comprises at least one of systemic, contact and/or soil fungicide, at least one of methoxyacrylate derivs., adjuvant, filler, and surfactant. The ratio of methoxyacrylate derivative to fungicide is 160-1:1-80. The product is highly effective and wide-spectrum. |      |          |                 |              |

IT 3347-22-6, Dithianon 24579-73-5, Propamocarb  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic compound fungicide)  
 RN 3347-22-6 HCAPLUS  
 CN Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo-  
 (9CI) (CA INDEX NAME)



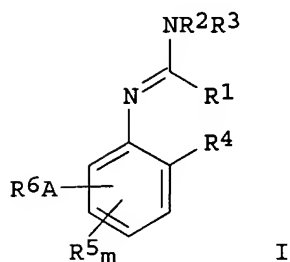
RN 24579-73-5 HCAPLUS  
 CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester (8CI, 9CI) (CA INDEX NAME)



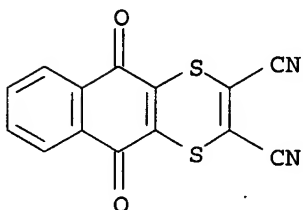
L51 ANSWER 10 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2003:204157 HCAPLUS  
 DN 138:233393  
 TI Broad-spectrum fungicidal composition comprising phenylamidine derivatives  
 IN Labourdette, Gilbert; Zundel, Jean Luc; Lappartient, Anne Gabrielle;  
 Villier, Alain; O'Neill, Elizabeth; Vors, Jean Pierre; Grosjean, Cournoyer  
 Marie Claire  
 PA Aventis CropScience SA, Fr.  
 SO Fr. Demande, 38 pp.  
 CODEN: FRXXBL  
 DT Patent  
 LA French  
 FAN.CNT 1

|    | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE         |
|----|---|------|----------|-----------------|--------------|
| PI | FR 2829362  | A1   | 20030314 | FR 2001-11685   | 20010910 <-- |
|    | FR 2829362  | B1   | 20031107 |                 |              |
|    | CA 2459098  | AA   | 20030327 | CA 2002-2459098 | 20020909 <-- |
|    | WO 2003024219   | A1   | 20030327 | WO 2002-FR3049  | 20020909 <-- |
|    | W:  |      |          |                 |              |
|    | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, |      |          |                 |              |
|    | CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, |      |          |                 |              |
|    | GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, |      |          |                 |              |
|    | LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, |      |          |                 |              |
|    | PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, |      |          |                 |              |
|    | UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW                          |      |          |                 |              |
|    | RW:   |      |          |                 |              |
|    | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, |      |          |                 |              |
|    | KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, |      |          |                 |              |
|    | FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, |      |          |                 |              |
|    | CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG              |      |          |                 |              |
|    | EP 1424893  | A1   | 20040609 | EP 2002-777410  | 20020909 <-- |
|    | R:  |      |          |                 |              |
|    | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, |      |          |                 |              |

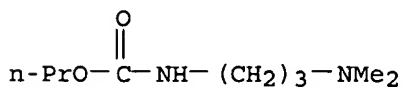
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK  
 BR 2002012689 A 20041019 BR 2002-12689 20020909 <--  
 CN 1553770 A 20041208 CN 2002-817571 20020909 <--  
 JP 2005502713 T2 20050127 JP 2003-528123 20020909 <--  
 US 2004241098 A1 20041202 US 2004-489151 20040702 <--  
 PRAI FR 2001-11685 A 20010910 <--  
 WO 2002-FR3049 W 20020909 <--  
 OS MARPAT 138:233393  
 GI



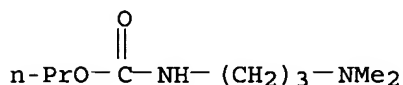
AB Broad-spectrum fungicidal compns. comprise phenylamidine derivs. I [R1 = (un)substituted alkyl, alkenyl, alkynyl, etc.; R2,R3 = r1, cyano, acyl, etc.; R4, R5, R6 = R1, mercapto, azido, nitro etc.; m = 0, 1-3; A = bond, O, S, SO, SO2, etc.] and any of a very large number of known fungicide.  
 IT 3347-22-6D, Dithianon, mixts. with phenylamidine derivs.  
 24579-73-5D, Propamocarb, mixts. with phenylamidine derivs.  
 25606-41-1D, Propamocarb hydrochloride, mixts. with phenylamidine derivs.  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (broad-spectrum fungicidal compns.)  
 RN 3347-22-6 HCAPLUS  
 CN Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo-  
 (9CI) (CA INDEX NAME)



RN 24579-73-5 HCAPLUS  
 CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester (8CI, 9CI) (CA INDEX NAME)



RN 25606-41-1 HCAPLUS  
 CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester, monohydrochloride  
 (8CI, 9CI) (CA INDEX NAME)



● HCl

## RETABLE

| Referenced Author<br>(RAU) | Year<br>(RPY) | VOL<br>(RVL) | PG<br>(RPG) | Referenced Work<br>(RWK) | Referenced<br>File |
|----------------------------|---------------|--------------|-------------|--------------------------|--------------------|
| Hoechst Schering Agrevo    | 2000          |              |             | WO 0046184 A             | HCAPLUS            |

L51 ANSWER 11 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2003:203381 HCAPLUS

DN 138:223306

TI Alkyl polyglycoside surfactant systems for agriculturally active compounds

IN Hopkinson, Michael J.; Moore, Carolyn E.; Fowler, Jeffrey D.

PA Syngenta Crop Protection, Inc., USA

SO U.S. Pat. Appl. Publ., 11 pp.

CODEN: USXXCO

DT Patent

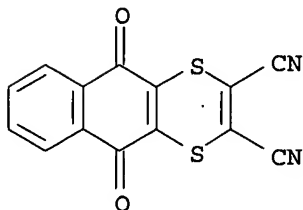
LA English

FAN.CNT 1

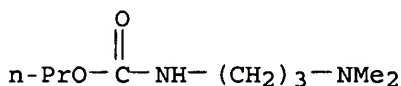
|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE         |
|------|---|------|----------|-----------------|--------------|
| PI   | US 2003050194   | A1   | 20030313 | US 2002-235276  | 20020905 <-- |
|      | US 6746988  | B2   | 20040608 |                 |              |
|      | CA 2459698  | AA   | 20030320 | CA 2002-2459698 | 20020905 <-- |
|      | WO 2003022049   | A1   | 20030320 | WO 2002-US28207 | 20020905 <-- |
|      | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |      |          |                 |              |
|      | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  |      |          |                 |              |
| EP   | 1423001   | A1   | 20040602 | EP 2002-757590  | 20020905 <-- |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK   |      |          |                 |              |
| BR   | 2002012549  | A    | 20041013 | BR 2002-12549   | 20020905 <-- |
| PRAI | US 2001-317474P   | P    | 20010907 |                 | <--          |
|      | WO 2002-US28207   | W    | 20020905 |                 | <--          |

AB An agricultural composition comprises at least one agriculturally active compound; at least one alkyl polyglycoside; at least one anionic surfactant selected from a polyaryIphenol polyalkoxyether sulfate and a polyarylphenol polyalkoxyether phosphate; and at least one basic compound; wherein the at least one anionic surfactant is neutralized to the inflection point in the titration curve with the at least one basic compound

IT 3347-22-6, Dithianon 24579-73-5, Propamocarb  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (fungicide; surfactant systems for agriculturally active compds.)  
 RN 3347-22-6 HCAPLUS  
 CN Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo-  
 (9CI) (CA INDEX NAME)



RN 24579-73-5 HCAPLUS  
 CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester (8CI, 9CI) (CA  
 INDEX NAME)



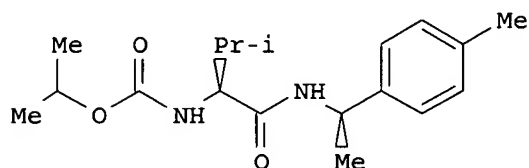
## RETABLE

| Referenced Author<br>(RAU) | Year<br>(RPY) | VOL<br>(RVL) | PG<br>(RPG) | Referenced Work<br>(RWK) | Referenced<br>File |
|----------------------------|---------------|--------------|-------------|--------------------------|--------------------|
| Agbaje                     | 2000          |              |             | US 6165939 A             | HCAPLUS            |
| Anon                       | 1996          |              |             | WO 9608150               | HCAPLUS            |
| Anon                       | 2000          |              |             | WO 0007709               | HCAPLUS            |
| Anon                       | 2000          |              |             | WO 0035284               | HCAPLUS            |
| Anon                       | 2000          |              |             | WO 0035863               | HCAPLUS            |
| Baker                      | 1998          |              |             | US 5731266 A             | HCAPLUS            |
| Berger                     | 2000          |              |             | US 6063733 A             | HCAPLUS            |
| Berger                     | 2000          |              |             | US 6121199 A             | HCAPLUS            |
| Burval                     | 1995          |              |             | US 5468718 A             | HCAPLUS            |
| Chasin                     | 1982          |              |             | US 4313847 A             | HCAPLUS            |
| Klima                      | 1999          |              |             | US 5928563 A             | HCAPLUS            |
| Kocur                      | 1993          |              |             | US 5258358 A             | HCAPLUS            |
| Lachut                     | 1996          |              |             | US 5516747 A             | HCAPLUS            |
| Malik                      | 1987          |              |             | US H224 H                |                    |
| Malik                      | 1987          |              |             | US H303 H                |                    |
| Martin                     | 1989          |              |             | US 4810279 A             | HCAPLUS            |
| Roberts                    | 1999          |              |             | US 5877112 A             | HCAPLUS            |
| Rogiers                    | 1999          |              |             | US 5885931 A             | HCAPLUS            |
| Schroeder                  | 1989          |              |             | US 4888325 A             | HCAPLUS            |
| Utz                        | 2000          |              |             | US 6143830 A             | HCAPLUS            |
| Volgas                     | 2002          |              |             | US 20020160916 A1        | HCAPLUS            |

L51 ANSWER 12 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2003:170358 HCAPLUS  
 DN 138:182495  
 TI Synergistic fungicidal compositions containing a valinamide derivative  
 IN Wachendorff-Neumann, Ulrike; Seitz, Thomas; Heinemann, Ulrich; Gayer,  
 Herbert

PA Bayer CropScience AG, Germany  
 SO Ger. Offen., STEAM18 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 FAN.CNT 1

|      | PATENT NO.   | KIND | DATE     | APPLICATION NO.  | DATE         |
|------|--|------|----------|------------------|--------------|
| PI   | DE 10141617  | A1   | 20030306 | DE 2001-10141617 | 20010824 <-- |
|      | WO 2003017762  | A2   | 20030306 | WO 2002-EP8999   | 20020812 <-- |
|      | WO 2003017762  | A3   | 20040527 |                  |              |
| W:   | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW |      |          |                  |              |
| RW:  | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG   |      |          |                  |              |
| PRAI | DE 2001-10141617   | A    | 20010824 | <--              |              |
| GI   |  |      |          |                  |              |



AB Synergistic fungicidal compns. contain the valinamide derivative I and any of 42 known fungicides.

IT 499782-58-0 499782-61-5 499782-62-6  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicidal composition)

RN 499782-58-0 HCAPLUS

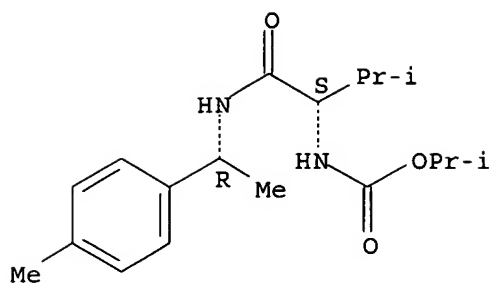
CN Carbamic acid, [(1S)-2-methyl-1-[[[(1R)-1-(4-methylphenyl)ethyl]amino]carbonyl]propyl]-, 1-methylethyl ester, mixt. with 5,10-dihydro-5,10-dioxonaphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile (9CI) (CA INDEX NAME)

CM 1

CRN 140923-25-7

CMF C18 H28 N2 O3

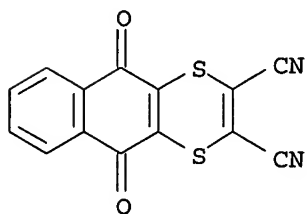
Absolute stereochemistry.



CM 2

CRN 3347-22-6

CMF C14 H4 N2 O2 S2



RN 499782-61-5 HCAPLUS

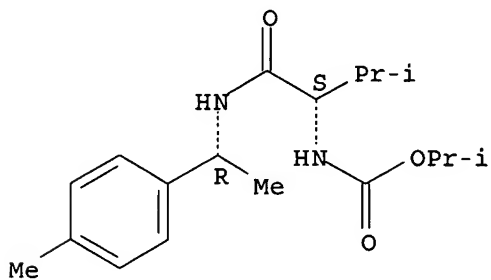
CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester, mixt. with  
1-methylethyl [(1S)-2-methyl-1-[[[(1R)-1-(4-methylphenyl)ethyl]amino]carbo  
nyl]propyl]carbamate (9CI) (CA INDEX NAME).

CM 1

CRN 140923-25-7

CMF C18 H28 N2 O3

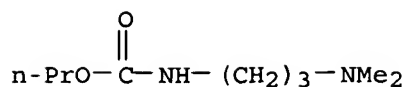
Absolute stereochemistry.



CM 2

CRN 24579-73-5

CMF C9 H20 N2 O2



RN 499782-62-6 HCAPLUS

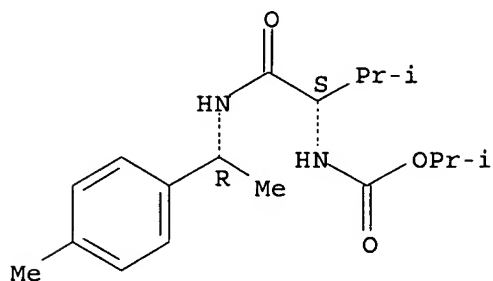
CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester,  
monohydrochloride, mixt. with 1-methylethyl [(1S)-2-methyl-1-[[[(1R)-1-(4-methylphenyl)ethyl]amino]carbonyl]propyl]carbamate (9CI) (CA INDEX NAME)

CM 1

CRN 140923-25-7

CMF C18 H28 N2 O3

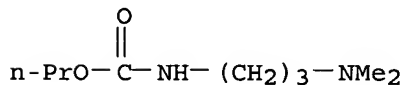
Absolute stereochemistry.



CM 2

CRN 25606-41-1

CMF C9 H20 N2 O2 . Cl H



● HCl

L51 ANSWER 13 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:387763 HCAPLUS

DN 136:365277

TI Compound fungicide

IN Liu, Changling; Liu, Wucheng; Zhan, Fukang; Guo, Wudi

PA Shenyang Chemical Institute, Peop. Rep. China

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 21 pp.

CODEN: CNXXEV

DT Patent

LA Chinese

FAN.CNT 1

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

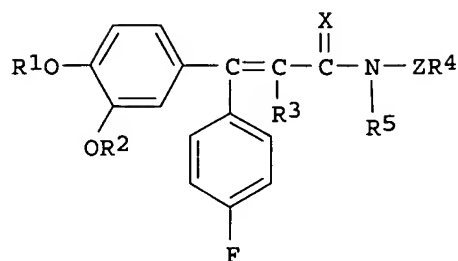
jan delaval - 15 august 2005



PI CN 1314083  
 PRAI CN 2000-110225  
 GI

A 20010926 CN 2000-110225  
 20000321 <--

20000321 <--



I

AB The title fungicide comprises fluorodiphenylacrylamide-type fungicide I (where R1 and R2 = C1-C6 alkyl, C1-C6 chloroalkyl, C3-C6 cycloalkyl, C2-C6 alkenyl group etc., R3 = H, halide, CN, NO2, imidazolyl, alkyl group etc., X = O, S or NH, Z = covalent bond or O, R4 and R5 = H, C1-C6 alkyl, C2-C6 alkenyl, C3-C6 cycloalkyl group etc.) and systemic, contact and/or soil fungicide at ratio of 1:100-20:1. Adjuvant can be added to the agent. The systemic fungicide is selected from benalaxyl, cymoxanil, cyprofuram, metalaxyl, metalaxyl-M, ofurace, oxadixyl, fosetyl aluminum, carbendazim, dimethomorph, H3PO3 or Na2HPO4; the contact fungicide is selected from anilazine, captan, captan, chlorothalonil, dithianon, Sn triphenylacetate, mancozeb, maneb, zineb, thiram, ziram, iminoctadine; and the soil fungicide from etridiazole, fenaminosulf, hymexazol, propamocarb or propetamphos. The product is highly effective against fungi and oomycetes.

IT 422520-42-1 422520-43-2

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
 (compound fungicide)

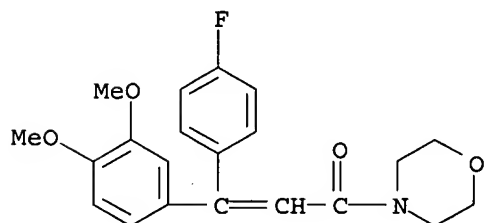
RN 422520-42-1 HCAPLUS

CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester, monohydrochloride, mixt. with 4-[3-(3,4-dimethoxyphenyl)-3-(4-fluorophenyl)-1-oxo-2-propenyl]morpholine (9CI) (CA INDEX NAME)

CM 1

CRN 211867-47-9

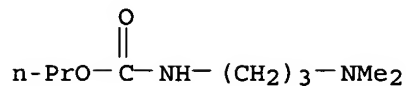
CMF C21 H22 F N O4



CM 2

CRN 25606-41-1

CMF C9 H20 N2 O2 . Cl H



● HCl

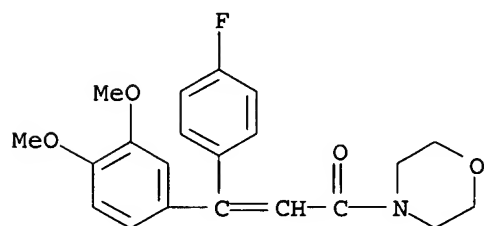
RN 422520-43-2 HCAPLUS

CN Morpholine, 4-[3-(3,4-dimethoxyphenyl)-3-(4-fluorophenyl)-1-oxo-2-propenyl]-, mixt. with 5,10-dihydro-5,10-dioxonaphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile (9CI) (CA INDEX NAME)

CM 1

CRN 211867-47-9

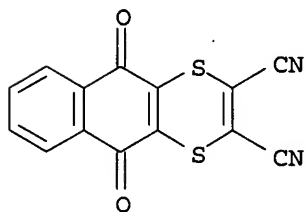
CMF C21 H22 F N O4



CM 2

CRN 3347-22-6

CMF C14 H4 N2 O2 S2



L51 ANSWER 14 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:247115 HCAPLUS

DN 134:262326

TI Stable package-mix formulations comprising a herbicide and pesticide

IN Sato, Tatsuo; Kuchikata, Masuo

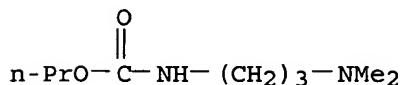
PA Monsanto Company, USA

SO PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DT Patent

RN 24579-73-5 HCAPLUS  
 CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester (8CI, 9CI) (CA INDEX NAME)



## RETABLE

| Referenced Author<br>(RAU) | Year<br>(RPY) | VOL<br>(RVL) | PG<br>(RPG) | Referenced Work<br>(RWK) | Referenced<br>File |
|----------------------------|---------------|--------------|-------------|--------------------------|--------------------|
| Basf Ag                    | 1999          |              |             | DE 19804913 A            | HCAPLUS            |
| Chevron Res & Tech         | 1993          |              |             | WO 9317554 A             | HCAPLUS            |
| Shell Internationale Re    | 1973          |              |             | GB 1302795 A             | HCAPLUS            |
| Yoshido, R                 | 1991          |              |             | US 4994102 A             | HCAPLUS            |

L51 ANSWER 15 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2000:486416 HCAPLUS

DN 133:105348

TI Preparation of highly microbicidal dipeptides and their use for field crops

IN Filippini, Lucio; Gusmeroli, Marilena; Mormile, Silvia; Colombo, Laura; Mirennia, Luigi

PA Isagro Ricerca S.r.l., Italy

SO Jpn. Kokai Tokkyo Koho, 14 pp.

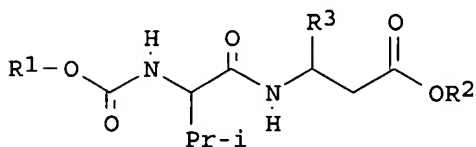
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE         |
|------|---|------|----------|-----------------|--------------|
| PI   | JP 2000198797   | A2   | 20000718 | JP 1999-340954  | 19991130 <-- |
|      | IT 1303800  | B1   | 20010223 | IT 1998-MI2583  | 19981130 <-- |
|      | IT 98MI2583   | A1   | 20000530 |                 |              |
|      | AU 9960628  | A1   | 20000601 | AU 1999-60628   | 19991124 <-- |
|      | AU 756519   | B2   | 20030116 |                 |              |
|      | EP 1028125  | A1   | 20000816 | EP 1999-203955  | 19991124 <-- |
|      | EP 1028125  | B1   | 20040128 |                 |              |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO |      |          |                 |              |
|      | AT 258557   | E    | 20040215 | AT 1999-203955  | 19991124 <-- |
|      | PT 1028125  | T    | 20040531 | PT 1999-203955  | 19991124 <-- |
|      | ES 2213979  | T3   | 20040901 | ES 1999-203955  | 19991124 <-- |
|      | NZ 501346   | A    | 20001027 | NZ 1999-501346  | 19991125 <-- |
|      | BR 9905751  | A    | 20000829 | BR 1999-5751    | 19991126 <-- |
|      | US 6448228  | B1   | 20020910 | US 1999-450950  | 19991129 <-- |
| PRAI | IT 1998-MI2583  | A    | 19981130 | <--             |              |
| OS   | MARPAT 133:105348   |      |          |                 |              |
| GI   |   |      |          |                 |              |



I

LA English

FAN.CNT 1

|      | PATENT NO.  | KIND | DATE         | APPLICATION NO. | DATE         |
|------|---|------|--------------|-----------------|--------------|
| PI   | WO 2001022814   | A1   | 20010405     | WO 2000-US26518 | 20000927 <-- |
|      | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |      |              |                 |              |
|      | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  |      |              |                 |              |
|      | JP 2001097802   | A2   | 20010410     | JP 1999-280132  | 19990930 <-- |
|      | CA 2379570  | AA   | 20010405     | CA 2000-2379570 | 20000927 <-- |
|      | BR 2000014385   | A    | 20020604     | BR 2000-14385   | 20000927 <-- |
|      | EP 1215962  | A1   | 20020626     | EP 2000-968428  | 20000927 <-- |
|      | EP 1215962  | B1   | 20050202     |                 |              |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL   |      |              |                 |              |
|      | US 6569809  | B1   | 20030527     | US 2000-671785  | 20000927 <-- |
|      | AU 772177   | B2   | 20040408     | AU 2000-78344   | 20000927 <-- |
|      | AT 288198   | E    | 20050215     | AT 2000-968428  | 20000927 <-- |
| PRAI | JP 1999-280132  | A    | 19990930 <-- |                 |              |
|      | WO 2000-US26518   | W    | 20000927 <-- |                 |              |

AB A concentrate package-mix composition comprising a water-soluble pesticide or herbicide,

for example a glyphosate salt, and a solid water-insol. pesticide or plant growth regulator, for example flumioxazin, is provided. The water-soluble pesticide or herbicide is dissolved in a continuous aqueous phase of the composition and solid particles of the water-insol. pesticide or plant growth regulator are suspended in the aqueous phase. These solid particles, individually or plurally, are intimately surrounded by a barrier layer, which comprises either one or both of a water-immiscible organic solvent or an emulsifying agent that has a hydrophile-lipophile balance (HLB) ≤15. Optionally, the composition further comprises a viscosity-modifying agent, such as colloidal hydrophilic silica, dispersed in the aqueous phase. The compns. exhibit enhanced resistance to settling of the solid particles and/or enhanced resistance to chemical degradation of the water-insol. pesticide or plant growth regulator, by comparison with otherwise similar compns. lacking the barrier layer or the organic solvent.

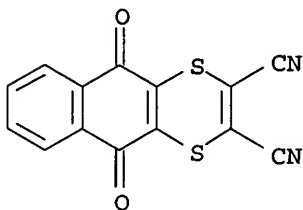
IT 3347-22-6, Dithianon 24579-73-5, Propamocarb

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(stable package-mix formulations comprising a herbicide and pesticide)

RN 3347-22-6 HCAPLUS

CN Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo-(9CI) (CA INDEX NAME)



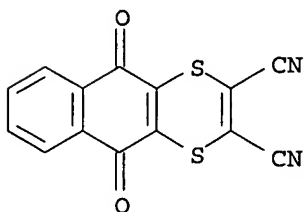
AB Title compds. I (R1 = iso-Pr, Ph; R2 = Me; R3 = 4-(R4 group)-substituted Ph, R5-substituted 2-benzothiazole; R4, R5 = F, Cl, Me, Et, methoxyl, cyano), useful as fungicide for crop plant as a vine, are prepared

N-isopropoxycarbonyl-S-valine was reacted with Me RS-3-amino-3-(4-chlorophenyl)propanoate (prepared from malonic acid, 4-chlorobenzaldehyde, and MeOH) in the presence of iso-Bu chloroformate and N-methylmorpholine in CHCl<sub>3</sub> at room temperature overnight to give Me (±)-RS-[3-(N-isopropoxycarbonyl-S-valinyl)amino]-3-(4-chlorophenyl)propanoate showing good fungicidal activity on a vine.

IT 3347-22-6, Dithianon 24579-73-5  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (fungicidal compns. containing; preparation of dipeptides and their use as fungicides)

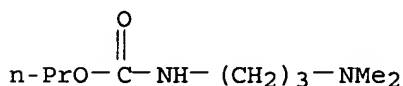
RN 3347-22-6 HCAPLUS

CN Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo-(9CI) (CA INDEX NAME)



RN 24579-73-5 HCAPLUS

CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester (8CI, 9CI) (CA INDEX NAME)



L51 ANSWER 16 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1998:424086 HCAPLUS

DN 129:91734

TI Synergistic fungicidal compositions based on benalaxyl

IN Palla, Ottorino; Miredda, Luigi; Colombo, Laura; Zini, Guido; Filippini, Lucio; Zanardi, Giampaolo

PA Isagro S.p.A., Italy; Palla, Ottorino; Miredda, Luigi; Colombo, Laura; Zini, Guido; Filippini, Lucio; Zanardi, Giampaolo

SO PCT Int. Appl., 75 pp.  
 CODEN: PIXXD2

DT Patent

LA English

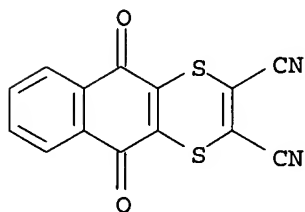
FAN.CNT 1.

|    | PATENT NO. | KIND | DATE     | APPLICATION NO. | DATE         |
|----|------------|------|----------|-----------------|--------------|
| PI | WO 9826654 | A2   | 19980625 | WO 1997-EP6968  | 19971206 <-- |
|    | WO 9826654 | A3   | 19981022 |                 |              |

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR,

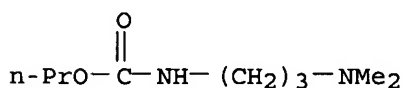
KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ,  
 PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG,  
 US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR,  
 GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,  
 GN, ML, MR, NE, SN, TD, TG

|                           |   |          |                |              |
|---------------------------|---|----------|----------------|--------------|
| AU 9857567                | A1  | 19980715 | AU 1998-57567  | 19971206 <-- |
| EP 946093                 | A2  | 19991006 | EP 1997-953792 | 19971206 <-- |
| EP 946093                 | B1  | 20020828 |                |              |
| R: DE, ES, FR, GB, IT, PT |   |          |                |              |
| CN 1244770                | A   | 20000216 | CN 1997-181429 | 19971206 <-- |
| BR 9714423                | A   | 20000704 | BR 1997-14423  | 19971206 <-- |
| EP 1155616                | A1  | 20011121 | EP 2001-203103 | 19971206 <-- |
| EP 1155616                | B1  | 20030129 |                |              |
| R: DE, ES, FR, GB, IT, PT |   |          |                |              |
| PT 946093                 | T   | 20021231 | PT 1997-953792 | 19971206 <-- |
| ES 2182147                | T3  | 20030301 | ES 1997-953792 | 19971206 <-- |
| ES 2190425                | T3  | 20030801 | ES 2001-203103 | 19971206 <-- |
| MX 9905829                | A   | 20000430 | MX 1999-5829   | 19990618 <-- |
| US 6228885                | B1  | 20010508 | US 1999-331168 | 19990927 <-- |
| HK 1043710                | A1  | 20030620 | HK 2002-103821 | 20020521 <-- |
| PRAI IT 1996-MI2660       | A   | 19961219 | <--            |              |
| IT 1997-MI1198            | A   | 19970522 | <--            |              |
| EP 1997-953792            | A3  | 19971206 | <--            |              |
| WO 1997-EP6968            | W   | 19971206 | <--            |              |
| OS                        | CASREACT 129:91734; MARPAT 129:91734  |          |                |              |
| AB                        | The title compns. comprise benalaxyl, wherein >50 % consists of D-benalaxyl, and one or more known fungicides, such as mancozeb, fosetil, cymoxanil, propamocarb, chlorothalonil, copper salts, etc. The preparation of D-benalaxyl is given. |          |                |              |
| IT                        | 3347-22-6D, Dithianon, mixts. containing D-benalaxyl and 24579-73-5D, Propamocarb, mixts. containing D-benalaxyl and RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic fungicidal compns.)                        |          |                |              |
| RN                        | 3347-22-6 HCAPLUS   |          |                |              |
| CN                        | Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo- (9CI) (CA INDEX NAME)   |          |                |              |

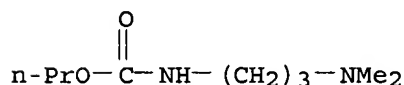


RN 24579-73-5 HCAPLUS

CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester (8CI, 9CI) (CA INDEX NAME)



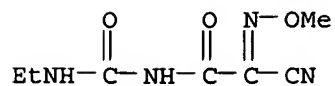
L51 ANSWER 17 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 1998:257387 HCAPLUS  
 DN 128:318298  
 TI The occurrence and chemical control of downy mildew on *Eustoma grandiflorum* Salisb  
 AU Yang, H. C.; Hsieh, T. F.  
 CS Taiwan Agric. Chemo. Toxic Substances Res. Inst., Wufeng, Taiwan  
 SO Zhiwu Baohu Xuehui Huikan (1998), 40(1), 37-48  
 CODEN: PLPBBH; ISSN: 0577-750X  
 PB Plant Protection Society of the Republic of China  
 DT Journal  
 LA Chinese  
 AB Downy mildew occurred on Texas bluebell (*Eustoma grandiflorum* Salisb.) in mid Jan., 1993, in a greenhouse. The disease was also found in the field. The disease causes severe damage on both seedlings and adult plants. The small gray mycelial masses appeared on the lower surface of young leaves and disseminated to make inconspicuous discolored spots. The leaves curled at the lower surface of leaves and became twisted and distorted. The spots then changed to slight brown and were covered with mycelial mass and spores. The infected leaves turned to dark brown and the plants died. The causal organism was *Peronospora chlorae* de Bary. The sporangiophores on lower leaf surface are dichotomously branched with sporangia borne on sharply pointed terminal branches. They germinated directly to form germ tubes at, 8-32°. The disease incidence was 12.46-35.63% when 7 varieties imported from Japan were surveyed. The primary inoculum of downy mildew was suspected to be coming from seeds. The fungicidal efficacy varied in protecting plants against the pathogen and no phytotoxicity was found when screening tests of fungicides was conducted in the field. Five fungicides, 35% cymoxanil + dithianon WP in 1:1200 dilution, 80% fosetyl-Al WP in 1:800 dilution, 64% propineb + oxadixyl WP in 1:400 dilution, 66.5% propamocarb hydrochloride S in 1:800 dilution and 35% benalaxyl WP in 1:2000 dilution showed the best efficacy in field trials. The cymoxanil + dithianon 35% WP was not recommended for use in seedling beds, since germination was inhibited after treatment.  
 IT 25606-41-1, Propamocarb hydrochloride 141204-83-3, Cymoxanil-dithianon mixture  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (occurrence and control of downy mildew on *Eustoma grandiflorum*)  
 RN 25606-41-1 HCAPLUS  
 CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester, monohydrochloride (8CI, 9CI) (CA INDEX NAME)



● HCl

RN 141204-83-3 HCAPLUS  
 CN Acetamide, 2-cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)-, mixt. with 5,10-dihydro-5,10-dioxonaphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 57966-95-7

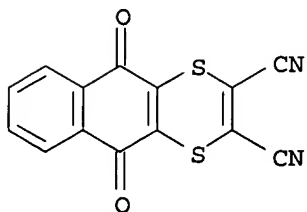
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CM 2

CRN 3347-22-6

CMF C14 H4 N2 O2 S2

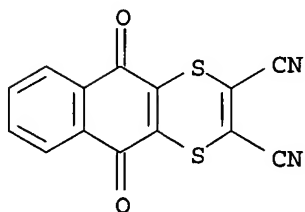


L51 ANSWER 18 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 1994:573062 HCAPLUS  
 DN 121:173062  
 TI Synergistic fungicidal mixture containing valinamide derivative.  
 IN Dehne, Heinz-Wilhelm; Brandes, Wilhelm; Kuck, Karl-Heinz; Seitz, Thomas  
 PA Bayer A.-G., Germany  
 SO Eur. Pat. Appl., 21 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA German  
 FAN.CNT 1

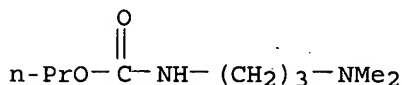
|    | PATENT NO.                                    | KIND | DATE     | APPLICATION NO.  | DATE         |
|----|---|------|----------|------------------|--------------|
| PI | EP 610764                                     | A1   | 19940817 | EP 1994-101357   | 19940131 <-- |
|    | EP 610764                                     | B1   | 19990512 |                  |              |
|    | R: BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, PT |      |          |                  |              |
|    | DE 4304172                                    | A1   | 19940825 | DE 1993-4304172  | 19930212 <-- |
|    | ES 2133426                                    | T3   | 19990916 | ES 1994-101357   | 19940131 <-- |
|    | JP 06247810                                   | A2   | 19940906 | JP 1994-32071    | 19940204 <-- |
|    | US 5491165                                    | A    | 19960213 | US 1994-192333   | 19940204 <-- |
|    | CN 1091238                                    | A    | 19940831 | CN 1994-101569   | 19940209 <-- |
|    | CN 1070339                                    | B    | 20010905 |                  |              |
|    | IL 108603                                     | A1   | 20000716 | IL 1994-108603   | 19940209 <-- |
|    | CN 1539279                                    | A    | 20041027 | CN 2004-10032272 | 19940209 <-- |
|    | BR 9400484                                    | A    | 19940927 | BR 1994-484      | 19940210 <-- |
|    | PL 180530                                     | B1   | 20010228 | PL 1994-302198   | 19940210 <-- |
|    | ZA 9400947                                    | A    | 19940825 | ZA 1994-947      | 19940211 <-- |
|    | HU 66297                                      | A2   | 19941128 | HU 1994-383      | 19940211 <-- |
|    | HU 213954                                     | B    | 19971128 |                  |              |
|    | RU 2176449                                    | C2   | 20011210 | RU 1994-4980     | 19940214 <-- |
|    | US 5650423                                    | A    | 19970722 | US 1995-554142   | 19951106 <-- |
|    | US 5776976                                    | A    | 19980707 | US 1997-802157   | 19970219 <-- |
|    | US 6057363                                    | A    | 20000502 | US 1998-110528   | 19980706 <-- |
|    | US 6245772                                    | B1   | 20010612 | US 2000-541922   | 20000403 <-- |



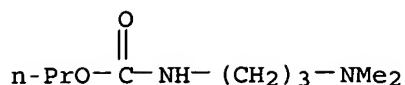
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|      | CN 1329828  | A  | 20020109 | CN 2000-126216 | 20000821 <-- |
|      | US 2001006964   | A1 | 20010705 | US 2001-776817 | 20010205 <-- |
|      | US 6495575  | B2 | 20021217 |                |              |
|      | US 2002173542   | A1 | 20021121 | US 2002-139548 | 20020506 <-- |
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|      | US 1994-192333  | A3 | 19940204 | <--            |              |
|      | US 1995-554142  | A3 | 19951106 | <--            |              |
|      | US 1997-802157  | A3 | 19970219 | <--            |              |
|      | US 1998-110528  | A3 | 19980706 | <--            |              |
|      | US 2000-541922  | A3 | 20000403 | <--            |              |
|      | US 2001-776817  | A3 | 20010205 | <--            |              |
| OS   | MARPAT 121:173062   |    |          |                |              |
| AB   | Synergistic fungicidal mixts. contain a valinamide derivative, R1O2CNHCH(CHMe2)CONHCH(Me)C6H4R2-4, (R1 = iso-Pr, sec-Bu; R2 = Cl, Me, Et, MeO) and a known fungicide, such as dichlofluanid, tolylfluanid, chlorothalonil, propineb, thiram, mancozeb, dyrene, Cu oxychloride, captan, dimethomorph, dithianon, phaltan, cymoxanil, propamocarb, fosetyl, metalaxyl, oxadixyl or fluazinam (no data). |    |          |                |              |
| IT   | 3347-22-6D, Dithianon, mixts. with valinamide derivative  |    |          |                |              |
|      | 24579-73-5D, Propamocarb, mixts. with valinamide derivative   |    |          |                |              |
|      | 25606-41-1, Propamocarb hydrochloride   |    |          |                |              |
|      | RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)   |    |          |                |              |
|      | (fungicides, synergistic)   |    |          |                |              |
| RN   | 3347-22-6 HCAPLUS   |    |          |                |              |
| CN   | Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo-(9CI) (CA INDEX NAME)  |    |          |                |              |



RN 24579-73-5 HCAPLUS  
 CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester (8CI, 9CI) (CA INDEX NAME)

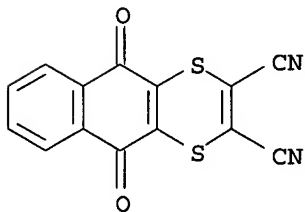


RN 25606-41-1 HCAPLUS  
 CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester, monohydrochloride (8CI, 9CI) (CA INDEX NAME)

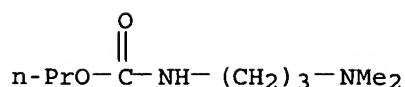


● HCl

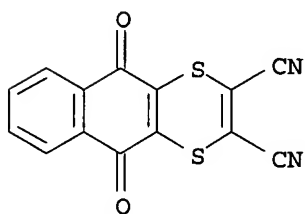
L51 ANSWER 19 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 1994:99244 HCAPLUS  
 DN 120:99244  
 TI In vitro study of the activity of several fungicides on the development of *Drechslera teres* F. *teres* and *F. maculata*  
 AU Bendahmane, B.; Barrault, G.; Albertini, L.; Toubia-Rahme, H.  
 CS Lab. Ing. Agron., ENSAT, Toulouse, Fr.  
 SO *Phytopathologia Mediterranea* (1992), 31(2), 77-84  
 CODEN: PYMDAU; ISSN: 0031-9465  
 DT Journal  
 LA French  
 AB An in vitro study of the activity of several fungicides on some biol. phases of *Drechslera teres* (mycelial growth, conidial germination, sporulation) showed that the form *teres* is more sensible than the form *maculata*. Some contact fungicides like anilazine and chlorothalonil were the most active on conidial germination. Systemic fungicides, particularly imidazoles (imazalil, prochloraz) and triazoles (diniconazole, flusilazole, propiconazole), were active on mycelial growth. Iprodione and copper oxyquinolate were equally efficient on mycelial growth and conidial germination. Sporulation of the *f. maculata* was little inhibited by prochloraz, diniconazole and M 14360 EC which completely inhibited sporulation of the *f. teres*. Anilazine affected sporulation as well as other biol. phases of the pathogen.  
 IT 3347-22-6, Dithianon 24579-73-5, Propamocarb  
 RL: BIOL (Biological study)  
 (conidial germination of *Drechslera teres teres* and *maculata* response to, in vitro)  
 RN 3347-22-6 HCAPLUS  
 CN Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo-(9CI) (CA INDEX NAME)



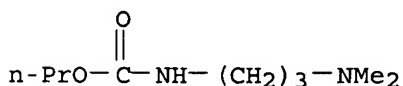
RN 24579-73-5 HCAPLUS  
 CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester (8CI, 9CI) (CA INDEX NAME)



L51 ANSWER 20 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 1993:54204 HCAPLUS  
 DN 118:54204  
 TI An in vitro study of the activity of different fungicides on the development of *Drechslera teres* f. *teres* and f. *maculata*  
 AU Bendahmane, B.; Barrault, G.; Albertini, L.; Toubia-Rahme, H.  
 CS Lab. Ing. Agron., ENSAT, Toulouse, Fr.  
 SO *Phytopathologia Mediterranea* (1992), 31(2), 77-84  
 CODEN: PYMDAU; ISSN: 0031-9465  
 DT Journal  
 LA French  
 AB An in vitro study of the activity of several fungicides on some biol. phases of *D. teres* (mycelial growth, conidial germination, sporulation) showed that the form *teres* is more sensible than the form *maculata*. Some contact fungicides like anilazine and chlorothalonil were the most active on conidial germination. Systemic fungicides, particularly imidazoles (imazalil, prochloraz) and triazoles (diniconazol, flusilazol, propiconazol) were active on mycelial growth. Iprodione and copper oxyquinoleate were equally efficient on mycelial growth and conidial germination. Sporulation of the f. *maculata* was little inhibited by prochloraz, diniconazol and M 14360 EC which completely inhibited sporulation of the f. *teres*. Anilazine affected sporulation as well as other biol. phases of the pathogen.  
 IT 3347-22-6, Dithianon 24579-73-5, Propamocarb  
 RL: BIOL (Biological study)  
 (Drechslera teres development response to)  
 RN 3347-22-6 HCAPLUS  
 CN Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo-(9CI) (CA INDEX NAME)



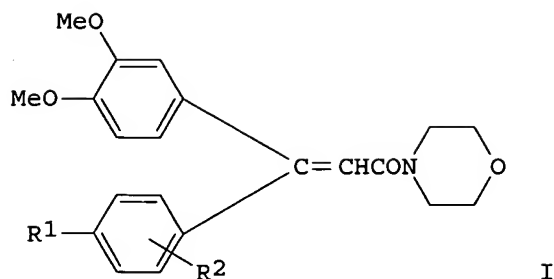
RN 24579-73-5 HCAPLUS  
 CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester (8CI, 9CI) (CA INDEX NAME)



L51 ANSWER 21 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1988:606746 HCAPLUS  
 DN 109:206746  
 TI Synergistic fungicidal compositions comprising a morpholine derivative  
 IN Albert, Guido; Curtze, Juergen; Friedrichs, Edmund  
 PA Shell Agrar G.m.b.H. und Co. K.-G., Fed. Rep. Ger.  
 SO Ger. Offen., 9 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 FAN.CNT 3

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE         |
|------|---|------|----------|-----------------|--------------|
| PI   | DE 3702769  | A1   | 19880811 | DE 1987-3702769 | 19870130 <-- |
|      | IL 85192  | A1   | 19911121 | IL 1988-85192   | 19880125 <-- |
|      | US 4923866  | A    | 19900508 | US 1988-149516  | 19880128 <-- |
|      | DD 267418   | A5   | 19890503 | DD 1988-312543  | 19880129 <-- |
|      | PL 155144   | B1   | 19911031 | PL 1988-270365  | 19880129 <-- |
|      | PL 158588   | B1   | 19920930 | PL 1988-288922  | 19880129 <-- |
|      | PL 159167   | B1   | 19921130 | PL 1988-288921  | 19880129 <-- |
|      | PL 159168   | B1   | 19921130 | PL 1988-288923  | 19880129 <-- |
|      | CA 1337514  | A1   | 19951107 | CA 1988-557664  | 19880129 <-- |
|      | CN 1030003  | A    | 19890104 | CN 1988-101473  | 19880130 <-- |
|      | CN 1029814  | B    | 19950927 |                 |              |
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|      | AU 610852   | B2   | 19910530 |                 |              |
|      | WO 8805630  | A1   | 19880811 | WO 1988-EP80    | 19880201 <-- |
|      | W: BG, BR, DK, HU, JP, KR, SU                         |      |          |                 |              |
|      | EP 280348   | A1   | 19880831 | EP 1988-200171  | 19880201 <-- |
|      | EP 280348   | B1   | 19920923 |                 |              |
|      | R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE |      |          |                 |              |
|      | ZA 8800682  | A    | 19880928 | ZA 1988-682     | 19880201 <-- |
|      | JP 01502028   | T2   | 19890713 | JP 1988-501598  | 19880201 <-- |
|      | BR 8805090  | A    | 19890815 | BR 1988-5090    | 19880201 <-- |
|      | HU 50269  | A2   | 19900129 | HU 1988-1448    | 19880201 <-- |
|      | HU 204672   | B    | 19920228 |                 |              |
|      | AT 80769  | E    | 19921015 | AT 1988-200171  | 19880201 <-- |
|      | ES 2046284  | T3   | 19940201 | ES 1988-200171  | 19880201 <-- |
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|      | DK 8805505  | A    | 19880930 | DK 1988-5505    | 19880930 <-- |
|      | DK 175498   | B1   | 20041115 |                 |              |
|      | US 5157028  | A    | 19921020 | US 1991-735307  | 19910724 <-- |
|      | US 5262414  | A    | 19931116 | US 1991-735308  | 19910724 <-- |
|      | US 5910496  | A    | 19990608 | US 1995-483126  | 19950607 <-- |
|      | US 5952496  | A    | 19990914 | US 1995-483125  | 19950607 <-- |
|      | US 35985  | E    | 19981208 | US 1996-600283  | 19960212 <-- |
| PRAI | DE 1983-3306996                                       | A    | 19830228 | <--             |              |
|      | DE 1983-3308045                                       | A    | 19830307 | <--             |              |
|      | US 1984-583770  | B1   | 19840227 | <--             |              |
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|      | DE 1987-3702769                                       | A    | 19870130 | <--             |              |
|      | US 1988-149516  | A3   | 19880128 | <--             |              |
|      | EP 1988-200171  | A    | 19880201 | <--             |              |
|      | WO 1988-EP80  | W    | 19880201 | <--             |              |
|      | US 1990-505582  | B1   | 19900406 | <--             |              |
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|      | US 1991-735308  | A3   | 19910724 | <--             |              |
|      | US 1993-118243  | B1   | 19930909 | <--             |              |
| OS   | MARPAT 109:206746                                     |      |          |                 |              |
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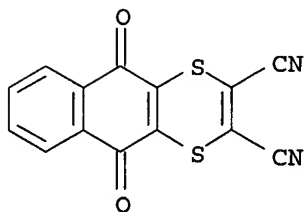
AB Synergistic fungicidal compns. comprise the morpholine derivative I [R1 = H, Cl, Br, CF3, OCF3, alkyl, alkoxy, alkenyl, Ph, cyclohexyl, (un)substituted PhO, etc.; R2 = H, 3-PhO] and a systemic and/or contact and/or soil fungicide. Combined use of 300 ppm I (R1 = Ph, R2 = H) and 1600 ppm mancozeb controlled *Phytophthora infestans* on potato by 85%, whereas the components by themselves were less effective. A wettable powder comprised 85% mancozeb 63, I (R1 = Ph, R2 = H) 10, Na2SO4 5, kaolin 12, alkyl naphthalenesulfonate 2, and ligninsulfonate 8%.

IT 3347-22-6D, Dithianon, mixts. with morpholine derivs.  
24579-73-5D, Propamocarb, mixture with morpholine derivs.  
116876-45-0 116876-48-3

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study);  
USES (Uses)  
(pesticides, synergistic)

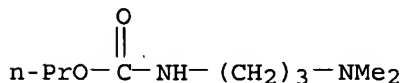
RN 3347-22-6 HCAPLUS

CN Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo-(9CI) (CA INDEX NAME)



RN 24579-73-5 HCAPLUS

CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester (8CI, 9CI) (CA INDEX NAME)

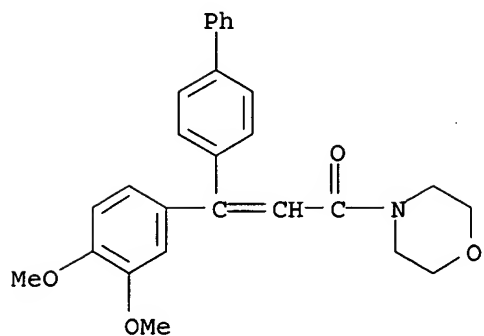


RN 116876-45-0 HCAPLUS

CN Morpholine, 4-[3-[1,1'-biphenyl]-4-yl-3-(3,4-dimethoxyphenyl)-1-oxo-2-propenyl]-, mixt. with 5,10-dihydro-5,10-dioxonaphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile (9CI) (CA INDEX NAME)

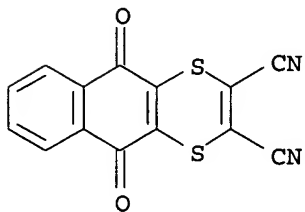
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CM 2

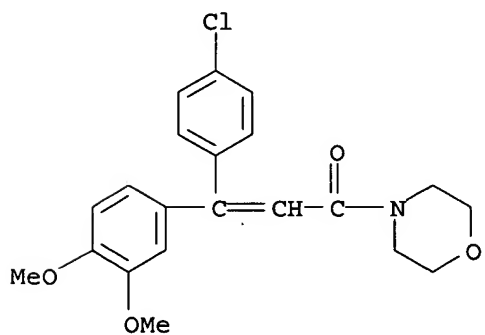
CRN 3347-22-6  
CMF C14 H4 N2 O2 S2



RN 116876-48-3 HCAPLUS  
CN Morpholine, 4-[3-(4-chlorophenyl)-3-(3,4-dimethoxyphenyl)-1-oxo-2-propenyl]-, mixt. with 5,10-dihydro-5,10-dioxonaphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile (9CI) (CA INDEX NAME)

CM 1

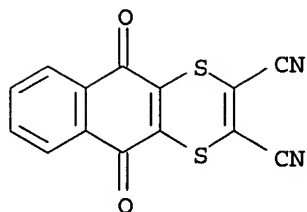
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CM 2

CRN 3347-22-6

CMF C14 H4 N2 O2 S2



L51 ANSWER 22 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1987:613584 HCAPLUS

DN 107:213584

TI Enhancement of fungicidal activity by N-hydroxyalkylalkanoic acid amides

IN Ghyczy, Miklos; Hager, Joerg

PA A. Nattermann und Cie. GmbH, Fed. Rep. Ger.

SO Ger. Offen., 10 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

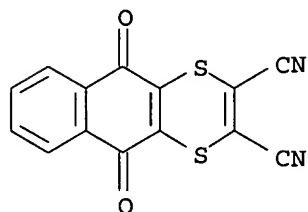
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| PI   | DE 3600664  | A1   | 19870716 | DE 1986-3600664 | 19860113 <-- |
|      | WO 8704048  | A1   | 19870716 | WO 1987-EP10    | 19870110 <-- |
|      | W: AU, BR, DK, FI, HU, JP, KR, US   |      |          |                 |              |
|      | RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE  |      |          |                 |              |
|      | AU 8768907  | A1   | 19870728 | AU 1987-68907   | 19870110 <-- |
|      | AU 600929   | B2   | 19900830 |                 |              |
|      | EP 231765   | A1   | 19870812 | EP 1987-100250  | 19870110 <-- |
|      | R: ES, GR   |      |          |                 |              |
|      | EP 250583   | A1   | 19880107 | EP 1987-900808  | 19870110 <-- |
|      | R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE   |      |          |                 |              |
|      | BR 8705376  | A    | 19880223 | BR 1987-5376    | 19870110 <-- |
|      | JP 63502115   | T2   | 19880818 | JP 1987-500928  | 19870110 <-- |
|      | HU 45836  | A2   | 19880928 | HU 1987-886     | 19870110 <-- |
|      | ZA 8700212  | A    | 19870826 | ZA 1987-212     | 19870113 <-- |
|      | CN 87100159   | A    | 19870916 | CN 1987-100159  | 19870113 <-- |
|      | DK 8704556  | A    | 19870831 | DK 1987-4556    | 19870831 <-- |
|      | FI 8703860  | A    | 19870907 | FI 1987-3860    | 19870907 <-- |
|      | US 5129950  | A    | 19920714 | US 1990-623276  | 19901206 <-- |
| PRAI | DE 1986-3600664   | A    | 19860113 | <--             |              |
|      | WO 1987-EP10  | A    | 19870110 | <--             |              |
|      | US 1987-111787  | B1   | 19870909 | <--             |              |
| AB   | The N-(hydroxyalkyl)alkanoic acid amides HOCHR <sub>1</sub> CH <sub>2</sub> NHCOR <sub>2</sub> (I) (R <sub>1</sub> = H, Me; R <sub>2</sub> = C1-22 alkyl) enhance the activity of known fungicides. A composition contained triadimefon 25, I (R <sub>1</sub> = H, R <sub>2</sub> = Me) 25, aliphatic Na sulfonate 2, cresol-HCHO condensation product 4, siliceous chalk 24, and SiO <sub>2</sub> 20%. The composition, applied at 125 ppm triadimefon, totally controlled powdery mildew on barley, whereas 125 ppm triadimefon by itself was less effective. |      |          |                 |              |
| IT   | 3347-22-6, Dithianone 24579-73-5, Propamocarb   |      |          |                 |              |

RL: BIOL (Biological study)

(fungicide composition containing hydroxyalkylalkanoic acid amide as enhancer)

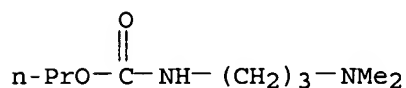
RN 3347-22-6 HCAPLUS

CN Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo- (9CI) (CA INDEX NAME)



RN 24579-73-5 HCAPLUS

CN Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester (8CI, 9CI) (CA INDEX NAME)



=> d his

(FILE 'HOME' ENTERED AT 14:41:36 ON 15 AUG 2005)  
SET COST OFF

FILE 'HCAPLUS' ENTERED AT 14:41:43 ON 15 AUG 2005

L1 1 S (WO2003-EP6892 OR DE2002-10232752)/AP,PRN  
E AMMERMAN/AU  
L2 6 S E21-E23  
E AMMERMAN/AU  
L3 582 S E11-E13,E15  
E STIERL R/AU  
L4 147 S E3-E5  
E SCHOFU U/AU  
L5 2 S E3,E4  
E SCHOFU U/AU  
L6 84 S E4  
E SCHELBERGER K/AU  
L7 123 S E3,E4  
E SCHERER M/AU  
L8 211 S E3-E9,E15  
SEL RN L1

FILE 'REGISTRY' ENTERED AT 14:44:19 ON 15 AUG 2005

L9 1 S E1  
L10 1 S 3347-22-6  
L11 1 S 24579-73-5  
L12 45 S 3347-22-6/CRN  
L13 63 S 24579-73-5/CRN  
L14 1 S L12 AND L13



L15 STR  
 L16 6 S L15  
 L17 2480 S 2508/RID AND SC2SC2-C6-C6/ES  
 L18 20 S SC2SC2-C6-C6/ES NOT L17  
 L19 105 S 2508.49/RID AND L17  
 L20 2375 S L17 NOT L19  
 L21 STR  
 L22 0 S L21 CSS SAM  
 L23 143 S L21 CSS FUL  
 SAV L23 QAZI518/A  
 L24 1 S L23 AND L19  
 L25 0 S L23 AND L20  
 L26 1 S L9,L14,L24

FILE 'HCAOLD' ENTERED AT 14:49:11 ON 15 AUG 2005

L27 0 S L26

FILE 'HCAPLUS' ENTERED AT 14:49:15 ON 15 AUG 2005

L28 1 S L26  
 L29 25 S L10,L19,L20 AND L11,L23  
 L30 1 S L28 AND L29  
 L31 1 S L1-L8 AND L30  
 L32 1 S L1-L8 AND L29  
 L33 0 S L32 NOT L31  
 L34 1 S L30-L32  
 L35 24 S L29 NOT L34  
 L36 1 S L35 AND BASF?/PA,CS  
 L37 2 S L34,L36  
 L38 23 S L29 NOT L37  
 L39 22 S L38 AND (PY<=2003 OR PRY<=2003 OR AY<=2003)  
 L40 18 S L38 AND (PY<=2002 OR PRY<=2002 OR AY<=2002)  
 L41 22 S L39,L40  
 SEL HIT RN

FILE 'REGISTRY' ENTERED AT 14:52:43 ON 15 AUG 2005

L42 14 S E2-E15  
 L43 8 S L42 AND L23  
 L44 6 S L42 AND L19  
 L45 1 S L44 AND 1/NC  
 L46 1 S L43 AND 1/NC  
 L47 1 S L43 AND 2/NC AND CLH

FILE 'HCAPLUS' ENTERED AT 14:54:07 ON 15 AUG 2005

L48 21 S L45 AND L46,L47  
 L49 20 S L48 AND (PY<=2003 OR PRY<=2003 OR AY<=2003)

FILE 'USPATFULL' ENTERED AT 14:55:06 ON 15 AUG 2005

L50 0 S L26

FILE 'REGISTRY' ENTERED AT 14:55:39 ON 15 AUG 2005

FILE 'HCAPLUS' ENTERED AT 14:56:21 ON 15 AUG 2005

L51 22 S L41 NOT L37

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